

Industrial Control & Automation Products

Issue 3



h-TE Controls, ETS & GAP are specialist technical distributors with over 100 years experience in the supply of electrical control & automation products to regulate and monitor industry.

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Contact your local sales office for additional products from this range.

Terms of Business applies, a copy of which is available on request. E&OE - Although we strive to keep this document as accurate as possible, we cannot be held responsible for any errors and omissions.

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Adaptable Boxes - Thermoplastic

IP44/55

Thermoplastic enclosures come with glands.

IP44 Enclosure			
H (mm)	W (mm)	D (mm)	Part No.
Round with Press On Lid			
Ø65	35		00800
Ø80	40		00802
Screw On Lid			
65	65	32	00808
80	80	40	00810
100	100	50	00816
100	100	80	00821
105	70	50	00820
Low Screw On Lid			
153	110	66	00822
160	135	77	00824
220	170	80	00826
310	240	110	00828
High Screw On Lid			
160	135	150	00830
220	170	150	00832
310	240	160	00834

IP55 (Smooth Finish) Enclosure			
H (mm)	W (mm)	D (mm)	Part No.
Low Screw On Lid			
100	100	50	00846
100	100	80	00851
105	70	50	00850
153	110	66	00852
160	135	77	00854
220	170	80	00856
310	240	110	00858
Transparent Low Screw On Lid			
153	110	66	00872
160	135	70	00874
220	170	80	00876
220	170	150	00882
310	240	110	00878
Transparent High Screw On Lid			
160	135	150	00880
310	240	160	00884
High Screw On Lid			
160	135	150	00860
220	170	150	00862
310	240	160	00864

Adaptable Boxes - in Polycarbonate

IP65

IP65 (Smooth Finish) Enclosure				
H (mm)	W (mm)	D (mm)	Enclosure Part No.	Mounting Plate Aluminium Part No.
220	140	140	12804	12842
220	205	140	12808	12844
220	275	140	12812	12845
370	275	140	12814	12846
570	275	140	12816	12847
570	380	140	12818	12848

Accessories		
Description	For Enclosure	Part No.
Wall mounting brackets	Fits all	12858

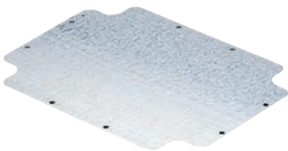




Junction Boxes - Thermoplastic

IP56

Thermoplastic enclosures come with glands.



Junction Boxes with Plain Screwed Lid

L (mm)	W (mm)	D (mm)	Part No.
100	100	50	GW44204
150	110	70	GW44206
190	140	70	GW44207
240	190	90	GW44208
300	220	120	GW44209
380	300	120	GW44210
460	380	120	GW44211

Junction Boxes with Deep Screwed Lid

L (mm)	W (mm)	D (mm)	Part No.
100	100	120	GW44214
150	110	140	GW44216
190	140	140	GW44217
240	190	160	GW44218
300	220	180	GW44219
380	300	180	GW44220
460	380	180	GW44221

Metal Mounting Plates

Dimensions		Part No.
H (mm)	W (mm)	
190	140	GW44615
240	190	GW44616
300	220	GW44617
380	300	GW44618
460	380	GW44619

Thalassa TBS Series

For protection of small size components, requiring little intervention or maintenance make Thalassa TBS-TBP your first choice. It's ideal for applications requiring protection against dust and water in any environment - the simple and quick solution to any installation.

IP66/IK7



Technical Data

ABS plastic boxes with plain covers
 Cover locking by 4 plastic captive screws
 Glow wire resistance: 650°C according to IEC 60695-2-11
 Usage temperature: -25°C to 60°C
 Installation temperature: -15°C to 40°C

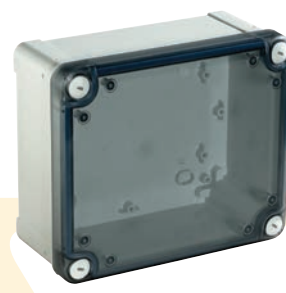
External Dimensions			Internal Dimensions			Cover		Part No.
H (mm)	W (mm)	D (mm)	H (mm)	W (mm)	D (mm)	Low (10-20mm)	High (40-80mm)	
74	74	54	65	65	47	•		NSYTBS775
116	116	62	105	105	55	•		NSYTBS11116
138	93	72	125	80	65	•		NSYTBS1397
164	121	87	150	105	80	•		NSYTBS16128
192	121	87	175	105	80	•		NSYTBS19128
192	164	87	175	150	80	•		NSYTBS19168
192	164	105	175	150	100		•	NSYTBS191610H
241	192	87	225	175	80	•		NSYTBS24198
241	192	105	225	175	100		•	NSYTBS241910H
241	192	128	225	175	120		•	NSYTBS241912H
291	241	87	275	225	80	•		NSYTBS29248
341	291	128	325	275	120	•		NSYTBS342912

*More options are available included sizes, transparent covers and Thalassa TBP version of polycarbonate boxes. Please ask us for more information.

Accessories		
Description	Dimensions (mm)	Part No.
Fixing by means of Ø4mm self-tapping screws(not included), Pozidriv and slotted head, ref NSYAMFSTB	DIN 35x7.5 rail for box 116	NSYAMRD11357TB
	DIN 35x7.5 rail for box 164	NSYAMRD16357TB
	DIN 35x7.5 rail for box 192	NSYAMRD19357TB
	DIN 35x7.5 rail for box 241	NSYAMRD24357TB
	DIN 35x7.5 rail for box 291	NSYAMRD29357TB
Installation by a single screw with the box closed & equipped Ø4 x 10mm Pack of 100 screws	Set of 4 plastic wall fixing lugs	NSYAEFTB
	Screws	NSYAMFSTB

*More accessories are available to compliment this range, please ask us for more information.

External Dimensions			Internal Dimensions			Part No.
H (mm)	W (mm)	D (mm)	H (mm)	W (mm)	D (mm)	
138	93	72	125	80	65	NSYTBS1397T
164	121	87	150	105	80	NSYTBS16128T
192	121	87	175	105	80	NSYTBS19128T
192	164	87	175	150	80	NSYTBS19168T
241	192	87	225	175	80	NSYTBS24198T
241	194	107	225	175	100	NSYTBS241910T
291	241	88	275	225	80	NSYTBS29248T
291	241	128	275	225	120	NSYTBS292412T
341	291	128	325	275	120	NSYTBS342912T





Thalassa PLM Series

IP66/IK10

Arrange of smooth finished, ABS/PC or laminated glass-fibre reinforced polyester, monobloc enclosures.

Technical Data

Material: Glass fibre reinforced polycarbonate
Finish: RAL 7035



ABS Industrial Box with Plain or Transparent Door

External Dimensions			ABS/PC Wall-mounting		Polyester Wall-Mounting	
H (mm)	W (mm)	D (mm)	Plain Door Part No.	Transparent Door Part No.	Plain Door Part No.	Transparent Door Part No.
310	215	160	NSYPLM32G	NSYPLM32TG		
308	255	160			NSYPLM3025G	NSYPLM3025TG
430	330	200			NSYPLM43G	NSYPLM43TG
530	430	200			NSYPLM54G	NSYPLM54TG
647	436	250			NSYPLM64G	NSYPLM64TG
747	536	300			NSYPLM75G	NSYPLM75TG
847	636	300			NSYPLM86G	NSYPLM86TG
1056	852	350			NSYPLM108G	NSYPLM108TG

Transparent doors IK08.

Plain Mounting Plates

Dimensions			Part No.
H (mm)	W (mm)		
300	200		NSYMM32
300	250		NSYMM3025
300	400		NSYMM43
600	400		NSYMM64
700	500		NSYMM75
800	600		NSYMM86
1000	800		NSYMM108

Internal Door

To Fit Enclosure			
H (mm)	W (mm)	D (mm)	Part No.
308	255	160	NSYPA3025PLMG
430	330	200	NSYPAP43G
530	430	200	NSYPAP54G
647	436	250	NSYPAP64G
747	536	300	NSYPAP75G
847	636	300	NSYPAP86G
1056	852	350	NSYPAP108G

Wall Fixing Lugs

Material	Part No.
Polyamide	NSYPFPLMG
Stainless steel	NSYPFPLM32G ⁽¹⁾
	NSYPFXPLM

⁽¹⁾ Exclusive for enclosures ref. NSYPLM32G and NSYPLM32TG.

Thalassa PLA Series

The floor-standing enclosures are made from polyester reinforced with fibreglass, moulded by hot compression. High resistance to corrosion in harsh environments, it maintains its mechanical and insulation properties.

Technical Data

Material: Glass Fibre Reinforced Polycarbonate
 Finish: RAL 7035

IP65/IK10



Polyester Floor-Standing Enclosures with Plain Door

External Dimensions			Completely Sealed Enclosures	
H (mm)	W (mm)	D (mm)	No. Of Doors	Plain Door Part No.
500	500	320	1	NSYPLA553G
500	500	420	1	NSYPLA554G
500	750	320	1	NSYPLA573G
500	750	420	1	NSYPLA574G
500	1000	320	2	NSYPLA5103G
500	1000	420	2	NSYPLA5104G
500	1250	320	2	NSYPLA5123G
500	1250	420	2	NSYPLA5124G
750	500	320	1	NSYPLA753G
750	500	420	1	NSYPLA754G
750	750	320	1	NSYPLA773G
750	750	420	1	NSYPLA774G
750	750	320	1	NSYPLA776G
750	1000	420	2	NSYPLA7103G
750	1000	320	2	NSYPLA7104G
750	1250	420	2	NSYPLA7123G
750	1250	320	2	NSYPLA7124G
1000	500	420	1	NSYPLA1053G
1000	500	320	1	NSYPLA1054G
1000	750	420	1	NSYPLA1073G
1000	750	320	1	NSYPLA1074G
1000	1000	420	2	NSYPLA10103G
1000	1000	320	2	NSYPLA10104G
1000	1250	420	2	NSYPLA10123G
1000	1250	320	2	NSYPLA10124G
1250	500	420	1	NSYPLA1253G
1250	500	320	1	NSYPLA1254G
1250	750	420	1	NSYPLA1273G
1250	750	320	1	NSYPLA1274G
1250	750	420	1	NSYPLA1276G
1250	1000	320	2	NSYPLA12103G
1250	1000	420	2	NSYPLA12104G
1250	1250	320	2	NSYPLA12123G
1250	1250	420	2	NSYPLA12124G
1250	1250	320	2	NSYPLA12126G
1500	500	420	1	NSYPLA1553G
1500	500	320	1	NSYPLA1554G
1500	750	420	1	NSYPLA1573G
1500	750	320	1	NSYPLA1574G
1500	750	420	1	NSYPLA1576G
1500	1000	320	2	NSYPLA15103G
1500	1000	420	2	NSYPLA15104G
1500	1250	320	2	NSYPLA15123G
1500	1250	420	2	NSYPLA15124G
1500	1250	320	2	NSYPLA15126G
2000	750	420	1	NSYPLA2074G

Transparent doors available on request.

Plain Mounting Plates

Dimensions		Part No.
H (mm)	W (mm)	
500	500	NSYPMM55
500	750	NSYPMM75
500	1000	NSYPMM510
500	1250	NSYPMM55 + NSYPMM75
750	500	NSYPMM75
750	750	NSYPMM77
750	1000	NSYPMM710
750	1250	NSYPMM712
1000	500	NSYPMM105
1000	750	NSYPMM107
1000	1000	NSYPMM1010
1000	1250	NSYPMM1012
1250	500	NSYPMM125
1250	750	NSYPMM127
1250	1000	NSYPMM1210
1250	1250	NSYPMM1212
1500	500	NSYPMM155
1500	750	NSYPMM157
1500	1000	NSYPMM1510
1500	1250	NSYPMM1512
2000	750	NSYPMM207

FIBOX

Enclosing innovations



ARCA

Polycarbonate cabinets, 14 sizes, key locks, c/w mounting Plate.

IP66/IK07

Technical Data

Material:	Glass fibre reinforced polycarbonate
Finish:	RAL 7035
Temperature range:	-40°C to + 80°C (continuous use)
Flammability:	UL94 5VA
Approvals:	ROHS

Portrait Version

Dimensions			Enclosure Part No.
H (mm)	W (mm)	D (mm)	
300	200	150	ARCA 302015
400	300	150	ARCA 403015
400	300	210	ARCA 403021
500	400	210	ARCA 504021
600	400	210	ARCA 604021
700	500	300	ARCA 705030
800	600	300	ARCA 806030

Landscape Version

Dimensions			Enclosure Part No.
H (mm)	W (mm)	D (mm)	
300	400	150	ARCA 304015
300	400	210	ARCA 304021
400	500	210	ARCA 405021
400	600	210	ARCA 406021
500	700	300	ARCA 507030
600	800	300	ARCA 608030

Window Version

Dimensions			Enclosure Part No.
H (mm)	W (mm)	D (mm)	
400	300	210	ARCA 403021W
500	400	210	ARCA 504021W
600	400	210	ARCA 604021W
700	500	300	ARCA 705030W
800	600	300	ARCA 806030W
600	800	300	ARCA 608030

Accessories

DIN Rail Frame Sets

Description	Part No.
DIN rail frame set • 1 row x 11 modules, for size 200x300x150	DRS ARCA 203015
DIN rail frame set • 1 row x 5 modules, for size 300x200x150	DRS ARCA 302015
DIN rail frame set • 1 row x 16 modules, for size 300x400x150	DRS ARCA 304015
DIN rail frame set • 1 row x 16 modules, for size 300x400x210	DRS ARCA 304021
DIN rail frame set • 2 rows x 11 modules, for size 400x300x150	DRS ARCA 403015
DIN rail frame set • 2 rows x 11 modules, for size 400x300x210	DRS ARCA 403021
DIN rail frame set • 2 rows x 22 modules, for size 400x500x210	DRS ARCA 405021
DIN rail frame set • 3 rows x 16 modules, for size 500x400x210	DRS ARCA 504021
DIN rail frame set • 2 rows x 27 modules, for size 400x600x210	DRS ARCA 406021
DIN rail frame set • 3 rows x 16 modules, for size 600x400x210	DRS ARCA 604021
DIN rail frame set • 3 rows x 32 modules, for size 500x700x300	DRS ARCA 507030
DIN rail frame set • 4 rows x 21 modules, for size 700x500x300	DRS ARCA 705030
DIN rail frame set • 3 rows x 37 modules, for size 600x800x300	DRS ARCA 608030
DIN rail frame set • 4 rows x 26 modules, for size 800x600x300	DRS ARCA 806030

Inner Door Sets (Galvanized Steel)

Inner door set • Galvanized steel, RAL 7035, for size 200x300x150	IDS ARCA 2030
Inner door set • Galvanized steel, RAL 7035, for size 300x200x150	IDS ARCA 3020
Inner door set • Galvanized steel, RAL 7035, for sizes 300x400x150/210	IDS ARCA 3040
Inner door set • Galvanized steel, RAL 7035, for sizes 400x300x150/210	IDS ARCA 4030
Inner door set • Galvanized steel, RAL 7035, for size 400x500x210	IDS ARCA 4050
Inner door set • Galvanized steel, RAL 7035, for size 500x400x210	IDS ARCA 5040
Inner door set • Galvanized steel, RAL 7035, for size 400x600x210	IDS ARCA 4060
Inner door set • Galvanized steel, RAL 7035, for size 600x400x210	IDS ARCA 6040
Inner door set • Galvanized steel, RAL 7035, for size 500x700x300	IDS ARCA 5070
Inner door set • Galvanized steel, RAL 7035, for size 700x500x300	IDS ARCA 7050
Inner door set • Galvanized steel, RAL 7035, for size 600x800x300	IDS ARCA 6080
Inner door set • Galvanized steel, RAL 7035, for size 800x600x300	IDS ARCA 8060

Wall Mounting Lugs Set

Wall mounting lugs set • Adds 10mm between wall and cabinet	WMK ARCA 10 SMALL
Wall mounting lugs set • Adds 40mm between wall and cabinet	WMK ARCA 40 SMALL
Wall mounting lugs set for 5070-8060 • Adds 10mm between wall and cabinet	WMK ARCA 10 MID
Wall mounting lugs set for 5070-8060 • Adds 40mm between wall and cabinet	WMK ARCA 40 MID
Plastic wall mounting lugs set • Adds 10mm between wall and cabinet	WMKQ10S
Plastic wall mounting lugs set • Adds 50mm between wall and cabinet	WMKQ50S
Plastic wall mounting lugs set for 5070-8060 • Adds 10mm between wall and cabinet	WMKQ10M
Plastic wall mounting lugs set for 5070-8060 • Adds 50mm between wall and cabinet	WMKQ50M

TEMPO

A range of smooth side ABS enclosures.

Technical Data

Material:	ABS Halogen free
Finish:	RAL 7035
Temperature range:	-40°C to + 60°C (continuous use)
Flammability:	UL94 HB
Approvals:	ROHS

IP65/IK07

FIBOX

Enclosing innovations



Enclosure with Grey Lid

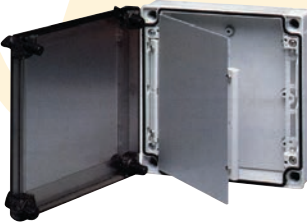
Dimensions				
H (mm)	W (mm)	D (mm)	Enclosure Part No.	Mounting Plate Part No.
95	65	60	TA090706	MP0907
110	110	65	TA111107	MP1111
130	95	65	TA131007	MP1310
130	130	75	TA131308	MP1313
187	122	90	TA 191209	MP 1912
201	163	98	TA 201610	MP 2016
240	191	107	TA 241911	MP 2419
289	239	107	TA 292411	MP 2924
344	289	117	TA 342912	MP 3429

Enclosure with Clear Lid

Dimensions				
H (mm)	W (mm)	D (mm)	Enclosure Part No.	Mounting Plate Part No.
187	122	90	TA 191209 T	MP 1912
201	163	98	TA 201610 T	MP 2016
240	191	107	TA 241911 T	MP 2419
289	239	107	TA 292411 T	MP 2924
344	289	117	TA 342912 T	MP 3429

FIBOX

Enclosing innovations



L = Low Base 25mm
H = High Base 50mm
XH = Extra High Base 75mm

MX

A range of smooth side polycarbonate enclosures.

Technical Data

Material: Polycarbonate
Halogen free
Finish: RAL 7035
Temperature range: -40°C to + 80°C (continuous use)
Flammability: UL94 - 5V
Approvals: NEMA

IP66-67/IK08

Enclosure with Grey Lid

Dimensions			Enclosure Part No.	Component Part (C*)	Mounting Plate Part No.
H (mm)	W (mm)	D (mm)			
130	80	35	PC 100/35 LG		MIV 100
130	80	75	PC 100/75 LG	C	MIV 100
130	80	100	PC 100/100 LG	C	MIV 100
130	80	60	PC 100/60 HG		MIV 100
130	80	100	PC 100/100 HG		MIV 100
130	80	125	PC 100/125 HG		MIV 100
130	130	35	PC 125/35 LG		MIV 125
130	130	75	PC 125/75 LG		MIV 125
130	130	100	PC 125/100 LG		MIV 125
130	130	60	PC 125/60 HG		MIV 125
130	130	100	PC 125/100 HG		MIV 125
130	130	125	PC 125/125 HG		MIV 125
180	130	35	PC 150/35 LG		MIV 150
180	130	50	PC 150/50 LG		MIV 150
180	130	75	PC 150/75 LG	C	MIV 150
180	130	100	PC 150/100 LG	C	MIV 150
180	130	60	PC 150/60 HG		MIV 150
180	130	75	PC 150/75 HG		MIV 150
180	130	100	PC 150/100 HG		MIV 150
180	130	125	PC 150/125 HG		MIV 150
180	180	60	PC 175/60 HG		MIV 175
180	180	100	PC 175/100 HG		MIV 175
255	180	63	PC 200/63 HG		MIV 200
255	180	88	PC 200/88 XHG		MIV 200
255	180	100	PC 200/100 HG		MIV 200
255	180	100	PC 200/100 XHG		MIV 200
255	180	100	PC 200/125 XHG		MIV 200
255	180	175	PC 200/175 XHG		MIV 200

*Supplied with loose base/cover/screws.

Enclosure with Clear Lid

Dimensions			Enclosure Part No.	Component Part (C*)	Mounting Plate Part No.
H (mm)	W (mm)	D (mm)			
130	80	35	PC 100/35 LT		MIV 100
130	80	75	PC 100/75 LT	C	MIV 100
130	80	100	PC 100/100 LT	C	MIV 100
130	80	60	PC 100/60 HT		MIV 100
130	80	100	PC 100/100 HT	C	MIV 100
130	80	125	PC 100/125 HT	C	MIV 100
130	130	35	PC 125/35 LT		MIV 125
130	130	75	PC 125/75 LT	C	MIV 125
130	130	100	PC 125/100 LT	C	MIV 125
130	130	60	PC 125/60 HT		MIV 125
130	130	100	PC 125/100 HT		MIV 125
130	130	125	PC 125/125 HT		MIV 125
180	130	35	PC 150/35 LT		MIV 150
180	130	50	PC 150/50 LT		MIV 150
180	130	75	PC 150/75 LT	C	MIV 150
180	130	100	PC 150/100 LT		MIV 150
180	130	60	PC 150/60 HT		MIV 150
180	130	75	PC 150/75 HT		MIV 150
180	130	100	PC 150/100 HT		MIV 150
180	130	125	PC 150/125 HT	C	MIV 150
180	180	60	PC 175/60 HT		MIV 175
180	180	100	PC 175/100 HT	C	MIV 175
255	180	63	PC 200/63 HT		MIV 200
255	180	88	PC 200/88 XHT		MIV 200
255	180	100	PC 200/100 HT		MIV 200
255	180	100	PC 200/100 XHT	C	MIV 200
255	180	125	PC 200/125 XHT		MIV 200
255	180	175	PC 200/175 XHT		MIV 200

*Supplied with loose base/cover/screws.

Accessories

Description	Part No.
Wall mounting bracket (pack of 4)	FP 22046

Piccolo

High quality polycarbonate enclosures to IP67.

Technical Data

Material:	Polycarbonate halogen free
Finish:	RAL 7035
Temperature range:	-40°C to + 80°C (continuous use)
Flammability:	UL94 - 5V
Approvals:	UL, Lloyds, Germanischer Lloyd, FIMKO

IP66-67/IK08

FIBOX
Enclosing innovations



Enclosure with Grey Lid

Dimensions			Enclosure Part No.	Mounting Plate Part No.
H (mm)	W (mm)	D (mm)		
110	80	65	PC B 65 G	B-MP
110	80	85	PC B 85 G	B-MP
140	80	65	PC C 65 G	C-MP
140	80	85	PC C 85 G	C-MP
170	80	65	PC D 65 G	D-MP
170	80	85	PC D 85 G	D-MP
230	80	65	PC F 65 G	F-MP
230	80	85	PC F 85 G	F-MP
170	140	95	PC H 95 G	H-MP
230	140	95	PC M 95 G	M-MP
230	150	125	PC MH 125 G	M-MP

Versions in ABS and clear lid available.

Accessories

Description	Pack Qty.	Part No.
Wall mounting bracket	4	FP 22046
Hinges	2	PA 22039

Solid

Medium to large size polycarbonate enclosures offering high IP rating.

IP66-67/IK08

Technical Data

Material:	Polycarbonate Halogen free
Finish:	RAL 7035
Temperature range:	-40°C to + 80°C (continuous use)
Flammability:	UL94 - 5V
Approvals:	UL, Lloyds, Germanischer Lloyd, FIMKO



Enclosure with Grey Lid

Dimensions			Enclosure Part No.	Mounting Plate Part No.
H (mm)	W (mm)	D (mm)		
190	190	130	PC 191913G	EKHVT
190	190	180	PC 191918G	EKHVT
280	190	130	PC 281913G	EKJVT
280	190	180	PC 281918G	EKJVT
380	190	130	PC 381913G	EKMVT
380	190	180	PC 381918G	EKMVT
280	280	130	PC 282813G	EKOVT
280	280	180	PC 282818G	EKOVT
380	280	130	PC 382813G	EKPVT
380	280	180	PC 382818G	EKPVT
560	280	130	PC 562813G	EKTVT
560	380	180	PC 563818G	EKUVT

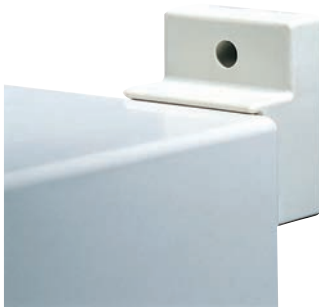
Enclosure with Clear Lid

Dimensions			Enclosure Part No.	Mounting Plate Part No.
H (mm)	W (mm)	D (mm)		
190	190	130	PC 191913T	EKHVT
190	190	180	PC 191918T	EKHVT
280	190	130	PC 281913T	EKJVT
280	190	180	PC 281918T	EKJVT
380	190	130	PC 381913T	EKMVT
380	190	180	PC 381918T	EKMVT
280	280	130	PC 282813T	EKOVT
280	280	180	PC 282818T	EKOVT
380	280	130	PC 382813T	EKPVT
380	280	180	PC 382818T	EKPVT
560	280	130	PC 562813T	EKTVT
560	380	180	PC 563818T	EKUVT

Also available in ABS.

Accessories

Description	Pack Qty.	Part No.
Hinges (Pack of 2)	4	MB 10622
Wall mounting bracket (Pack of 4)	2	MB 10674
Description	Size	Part No.
Inspection windows with smoked grey transparent window	248 x 128	L 12 II
	248 x 218	L 24 II



KS Range

GRP enclosures available with or without viewing window.

Technical Data

Material: Glass fibre reinforced unsaturated polyester
 Mounting plate: 3mm sheet steel zinc plated
 Viewing window: Impact resistant 3.0mm glazed acrylic
 Temperature resistance: Up to 150°C (transparent cover version 120°C)
 Approvals: UL, CSA & Lloyds

IP56/IP66

Standard Enclosure

Dimensions					
H (mm)	W (mm)	D (mm)	IP Rating	Viewing Window	Part No.
1000	1000	300	56	-	1400.500
300	200	150	66	-	1423.500
350	250	150	66	-	1432.500
400	300	200	66	-	1434.500
400	400	200	66	-	1444.500
600	400	200	66	-	1446.500
400	400	200	56	yes	1448.500
600	400	200	56	yes	1449.500
500	500	300	66	-	1453.500
500	500	300	56	yes	1454.500
600	600	200	66	-	1466.500
600	600	200	56	yes	1467.500
800	600	300	66	-	1468.500
800	600	300	56	yes	1469.500
1000	800	300	56	yes	1479.500
1000	800	300	66	-	1480.500

Accessories

Description	Pack Qty.	Part No.
Wall Mounting Brackets		
Fibreglass reinforced polyamide	4	1483.010
Pole clamp		2584.000

Ancillaries

Description	Pack Qty.	Part No.
Mounting plate adjustment bracket	(for enclosures ≤250mm deep) 4	1481.000
	(for enclosures 300mm deep) 4	1491.000
Self tapping screws	300	2487.000
Threaded inserts	20	1482.000

Spacial SBM Series

A comprehensive range of steel industrial boxes with different dimensions in plain cover versions.

IP66/IK10



Technical Data

Material: Sheet steel
Finish: RAL 7035

Steel Industrial Boxes

External Dimensions			Plain Door Part No.
H (mm)	W (mm)	D (mm)	
150	150	80	NSYSBM15158
150	150	120	NSYSBM151512
150	200	80	NSYSBM15208
150	200	120	NSYSBM152012
150	300	80	NSYSBM15308
150	300	120	NSYSBM153012
150	400	80	NSYSBM15408
150	400	120	NSYSBM154012
200	200	80	NSYSBM20208
200	200	120	NSYSBM202012
200	300	80	NSYSBM20308
200	300	120	NSYSBM203012
200	400	80	NSYSBM20408
200	400	120	NSYSBM204012
200	500	80	NSYSBM20508
200	500	120	NSYSBM205012
200	600	80	NSYSBM20608
200	600	120	NSYSBM206012
200	800	120	NSYSBM208012
300	300	120	NSYSBM303012
300	400	120	NSYSBM304012
300	500	120	NSYSBM305012
300	600	120	NSYSBM306012
300	800	120	NSYSBM308012
400	400	120	NSYSBM404012
400	500	120	NSYSBM405012
400	600	120	NSYSBM406012
400	800	120	NSYSBM408012



Plain Mounting Plates

To Fit Enclosure			Part No.
H (mm)	W (mm)	D (mm)	
150	150	80	NSYMM11SB
150	150	120	NSYMM11SB
150	200	80	NSYMM12SB
150	200	120	NSYMM12SB
150	300	80	NSYMM13SB
150	300	120	NSYMM13SB
150	400	80	NSYMM14SB
150	400	120	NSYMM14SB
200	200	80	NSYMM22SB
200	200	120	NSYMM22SB
200	300	80	NSYMM23SB
200	300	120	NSYMM23SB
200	400	80	NSYMM24SB
200	400	120	NSYMM24SB
200	500	80	NSYMM25SB
200	500	120	NSYMM25SB
200	600	80	NSYMM26SB
200	600	120	NSYMM26SB
200	800	120	NSYMM28SB
300	300	120	NSYMM33SB
300	400	120	NSYMM34SB
300	500	120	NSYMM35SB
300	600	120	NSYMM36SB
300	800	120	NSYMM38SB
400	400	120	NSYMM44SB
400	500	120	NSYMM45SB
400	600	120	NSYMM46SB
400	800	120	NSYMM48SB



KL Range - Mild Steel

Industrial wall mounting cabinets with screw fixed lid.

IP55/IP66

Technical Data

Material: Sheet steel 1.25mm
 Mounting plate: 2mm sheet steel zinc plated
 Enclosure and doors powder coated in textured RAL 7035

Approvals: UL, CSA, VDE amongst others

Without Gland Plate

Dimensions				IP Rating	Enclosure Part No.	Mounting Plate Part No.
H (mm)	W (mm)	D (mm)				
150	150	120	66	1500.510	1560.700	
150	300	120	66	1501.510	1561.700	
200	200	120	66	1502.510	1562.700	
200	300	120	66	1503.510	1563.700	
200	400	120	66	1504.510	1564.700	
200	500	120	66	1505.510	1565.700	
200	600	120	66	1506.510	1566.700	
300	300	120	66	1507.510	1567.700	
300	400	120	66	1508.510	1568.700	
300	500	120	66	1509.510	1569.700	
300	600	120	66	1510.510	1570.700	
400	400	120	66	1511.510	1571.700	
400	600	120	66	1512.510	1572.700	
400	800	120	66	1513.510	1573.700	
150	150	80	66	1514.510	1560.700	
150	300	80	66	1515.510	1561.700	
200	200	80	66	1516.510	1562.700	
200	300	80	66	1517.510	1563.700	
200	400	80	66	1518.510	1564.700	
200	600	80	66	1519.510	1566.700	
200	800	120	66	1527.510	1574.700	
150	200	80	66	1528.510	1575.700	
150	200	120	66	1529.510	1575.700	
150	400	120	66	1589.510	1576.700	

With Gland Plate

Dimensions				IP Rating	Enclosure Part No.	Mounting Plate Part No.
H (mm)	W (mm)	D (mm)				
150	300	120	55	1530.510	1561.700	
200	300	120	55	1531.510	1563.700	
200	400	120	55	1532.510	1564.700	
200	500	120	55	1533.510	1565.700	
200	600	120	55	1534.510	1566.700	
300	300	120	55	1535.510	1567.700	
300	400	120	55	1536.510	1568.700	
300	500	120	55	1537.510	1569.700	
300	600	120	55	1538.510	1570.700	
400	400	120	55	1539.510	1571.700	
400	600	120	55	1540.510	1572.700	
400	800	120	55	1541.510	1573.700	
200	800	120	55	1542.510	1574.700	

Wall Brackets

Description	Wall Distance (mm)	Pack Qty.	Part No.
Sheet steel-zinc plated	8	4	1590.000
Brass-nickel plated	8	4	1580.000
Sheet steel-zinc plated	10	4	2508.010
	40	4	2503.010

Ancillaries

Description	Pack Qty.	Part No.
Quick release fastener	12	1593.000
Cover hinge	3	1592.000
Cover retainer	3	1591.000
Earth kit	5	2570.100
Metal gland plate	1	1581.100

EB Range - Mild Steel

Industrial wall mounting cabinets with hinged lid.

Technical Data

Material: Sheet steel box 1.38mm, Door 1.25mm
 Mounting plate: 2.5mm sheet steel zinc plated
 Finish: Enclosure and doors powder coated in textured RAL 7035
 Approvals: UL, CSA, VDE amongst others

IP66



Enclosures			
Dimensions			
H (mm)	W (mm)	D (mm)	Part No.
150	150	80	1551.500
150	150	120	1553.500
200	200	80	1546.500
200	200	120	1549.500
300	150	80	1545.500
300	150	120	1548.500
300	200	80	1552.500
300	200	120	1554.500
300	300	120	1555.500
400	200	80	1547.500
400	300	155	1577.500
400	200	120	1550.500
400	300	120	1556.500
500	200	120	1557.500
600	300	155	1578.500
800	300	155	1579.500

Accessories

Wall Mounting Brackets			
Description	Wall Distance (mm)	Pack Qty.	Part No.
Sheet steel zinc plated	8	4	1590.000
Brass-nickel plated	8	4	1580.000
Steel	10	1	2508.010
	40	1	2503.010
Pole Clamp		2	2584.000
Mounting Clip		30	2309.000
Lock Insert		1	2571.000
Lock Cover		2	2476.000

Locks
 Fitted as standard with a double-bit lock. This may be changed for:-

Lock inserts	(Version A)
Cylinder inserts	(Version B)
Plastic handles	(Version B)
T handles	(Version B)

KL Range - Stainless Steel

Wall mounting enclosures with screw fixed lid.

Technical Data

Material: Stainless steel IP66 1.4301 (AISI 304)
 IP66 1.401; 1.5mm
 Finish: Brushed
 Approvals: UL, CSA, VDE amongst others

IP66



Without Gland Plate				Enclosures	Mounting Plates
Dimensions				Part No.	Part No.
H (mm)	W (mm)	D (mm)	IP Rating		
150	150	80	66	1521.010	1560.700
150	300	80	66	1522.010	1561.700
200	200	80	66	1523.010	1562.700
200	300	80	66	1524.010	1563.700
200	400	120	66	1525.010	1564.700
300	300	120	66	1526.010	1567.700
150	150	120	66	1527.010	1560.700
200	200	120	66	1528.010	1562.700
200	300	120	66	1529.010	1563.700
300	400	120	66	1530.010	1568.700

Accessories

Wall Mounting Brackets			
Description	Wall Distance (mm)	Pack Qty.	Part No.
Stainless steel	8	4	1594.000
	10	4	2433.000



STB Range - Mild Steel - ATEX

IP66/67

Industrial mild steel wall mounting cabinets, fitted with TAS20 rail welded to enclosure base for equipment mounting.

Technical Data

Material:	1.5mm thick mild steel (16 SWG)
Finish:	RAL 7032 Grey
Impact resistance:	7Nm
Temperature range:	-40°C to +85°C -20°C to +40°C (ambient)
Approvals:	ATEX
Gland plates:	None

Enclosure with Grey Lid - IP67

Type	Dimensions			Part No.
	H (mm)	W (mm)	D (mm)	
STB1 MS HT	120	120	80	1024970000
STB1.1 MS HT	150	120	80	1024980000
STB2 MS HT	150	150	90	1024990000
STB2.1 MS HT	190	150	90	1025010000
STB3 MS HT	190	190	100	1025020000
STB4 MS HT	250	250	120	1025030000
STB5 MS HT	160	380	120	1025040000
STB6 MS HT	260	400	130	1025050000

Accessories

Description	Part No.
Sliding fixing nut with M5 screw	043350000
Earth stud kit with M8 brass screws	950270000



STB Range - Stainless Steel - ATEX

IP66

Wall mounting cabinets.

Technical Data

Material:	1.5mm thick stainless steel 316L
Finish:	Chemical dip (bright polished appearance)
Impact resistance:	7Nm
Temperature range:	-40°C to + 85°C -20°C to + 40°C (ambient)
Approvals:	ATEX
Gland plates:	None

Stainless Steel

Type	Dimensions			Part No.
	H (mm)	W (mm)	D (mm)	
STB1 SS E	120	120	80	1058810000
STB1.1 SS E	150	120	80	1058820000
STB2 SS E	150	150	90	1058830000
STB2.1 SS E	190	150	90	1058840000
STB3 SS E	190	190	100	1058850000
STB4 SS E	250	250	120	1058860000
STB5 SS E	160	380	120	1058880000
STB6 SS E	250	400	130	1058870000

Accessories

Description	Part No.
Sliding fixing nut with M5 screw	043350000
Earth stud kit with M6 brass screws	950270000

K Range - Aluminium - Atex

The K range of enclosures offers an extremely good resistance to industrial and marine environments. They are suitable for use as terminal junction boxes and housings for switches, push-buttons, indicators, lights etc..

IP66/IP67

Weidmüller 

Technical Data

Material:	Aluminium alloy
Finish:	Smooth natural finish
Impact resistance:	7Nm
Temperature range:	-30°C to +85°C +100°C for 1 hour -30°C to +40°C (ambient)
Approvals:	ATEX cULus aE197061



Aluminium Enclosures					
Type	Dimensions			Enclosure Part No	Mounting Plate Part No.
	H (mm)	W (mm)	D (mm)		
K 0	45	50	30	0573200000	-
K 01	64	58	34	1565240000	-
K 02	64	98	34	1565250000	-
K 1	70	70	45	0342000000	1905280000
K 11	80	75	57	0573300000	3073000000
K 2	70	100	45	0342100000	1905270000
K 21	80	125	57	0573400000	3073020000
K 3	70	165	45	0342200000	1898210000
K 31	80	175	57	0573500000	3073040000
K 32	80	250	55	1565260000	3073050000
K 4	82	130	72	0342300000	3073060000
K 41	120	122	81	1565270000	3073070000
K 5	130	170	90	0342400000	3073080000
K 51	120	220	81	1565280000	3073090000
K 52	160	160	91	1565290000	3073100000
K 6	160	200	100	0342500000	3073110000
K 61	160	260	91	0573600000	3073120000
K 7	160	350	100	0342600000	3073130000
K 71	230	280	111	0573700000	3073140000
K 72	230	400	111	1565300000	3073150000
K 8	160	585	100	0351200000	3073160000
K 81	313	404	111	0573800000	3073170000

Special painted finish available on request.

Accessories

Mounting Rails	
Type	Part No.
TS32 (2m)	0122800000
TS35 (2m)	0383400000
TS15 (2m)	0117500000

Stand Off Pillars		
Length (mm)	Pack Qty.	Part No.
15	2	3896100000
20	2	3896200000
30	2	3896300000

Wall Mounted Mild Steel Enclosures



Spacial S3D

Spacial S3D is a market leading range of wall mounting enclosures ideal for non-clean indoor industrial environments. They are light and resistant enclosures made from a folded cross structure of sheet steel ensuring good protection, strength and quality. Overall the Spacial S3D is easy to handle, easy to adapt and attractive.

Technical Data

Material:	Steel
Finish:	Textured powder paint RAL7035
Approvals:	LCIE, UL, DNV, BV & GL.

S3D with Mounting Plate

IP66

Description	Dimensions			Part No.
	H (mm)	W (mm)	D (mm)	
	300	200	150	NSYS3D3215P
	300	250	150	NSYS3D32515P
	300	300	150	NSYS3D3315P
	300	300	200	NSYS3D3320P
	300	400	150	NSYS3D3415P
	400	300	150	NSYS3D4315P
	400	300	200	NSYS3D4320P
	400	400	200	NSYS3D4420P
	400	600	200	NSYS3D4620P
	400	600	250	NSYS3D4625P
	500	300	200	NSYS3D5320P
	500	400	200	NSYS3D5420P
	500	400	250	NSYS3D5425P
	500	500	200	NSYS3D5520P
	500	500	250	NSYS3D5525P
	600	400	200	NSYS3D6420P
	600	400	250	NSYS3D6425P
	600	500	250	NSYS3D6525P
	600	600	200	NSYS3D6620P
	600	600	250	NSYS3D6625P
	600	600	300	NSYS3D6630P
	600	600	400	NSYS3D6640P
	600	800	300	NSYS3D6830P
	700	500	250	NSYS3D7525P
	800	600	200	NSYS3D8620P
	800	600	250	NSYS3D8625P
	800	600	300	NSYS3D8630P
	800	600	400	NSYS3D8640P
	800	800	250	NSYS3D8825P
	800	800	300	NSYS3D8830P
	800	1000	300	NSYS3D81030P
	1000	600	250	NSYS3D10625P
	1000	600	300	NSYS3D10630P
	1000	600	400	NSYS3D10640P
	1000	800	250	NSYS3D10825P
	1000	800	300	NSYS3D10830P
	1000	800	400	NSYS3D10840P
	1000	1000	300	NSYS3D101030P
	1200	600	300	NSYS3D12630P
	1200	600	400	NSYS3D12640P
	1200	800	300	NSYS3D12830P
	1200	800	400	NSYS3D12840P
	1200	1000	300	NSYS3D121030P

Mild steel wall mounting enclosure with plain door, plain mounting plate and 3mm double-bar lock.

Direct wall mounting (4 x Ø10 holes for sealing plugs guaranteeing IP) or use fixing lugs installed from outside (order separately NSYAEFPFSC)

S3D Double Door with Mounting Plate

IP55

	800	1000	300	NSYS3D81030DP
	800	1200	300	NSYS3D81230DP
	1000	1000	300	NSYS3D101030DP
	1000	1200	300	NSYS3D101230DP
	1200	1000	300	NSYS3D121030DP
	1200	1000	400	NSYS3D121040DP
	1200	1200	300	NSYS3D121230DP

Mild steel wall mounting enclosure with 2 plain doors, plain mounting plate and 3mm double-bar lock

S3D Enclosure with Transparent Door - No Mounting Plate

IP66

	400	600	200	NSYS3D4620T
	600	600	250	NSYS3D12640T
	800	600	200	NSYS3D6625T
	1200	600	400	NSYS3D8620T

Mild steel wall mounting enclosure with transparent door and 3mm double-bar lock

Accessories

Description			Part No.
Standard handles with keys for Spacial S3D 1242E key handle	Attractive and ergonomic bi-material handle	Supplied with 2 keys	NSYAEDL1242S3D
Set of 4 steel wall-fixing lugs	Mounting of the wall-fixing lugs in horizontal or vertical position	Maximum load: horizontal 180kg and vertical 350kg	NSYAEFPFSC
Set of 4 stainless steel wall fixing lugs	Mounting of the wall-fixing lugs in horizontal or vertical position		NSYAEFPFXSC



AE Range

Enclosure with door of sheet steel, spray-finished with mounting plate and gland plate in the base.

IP55/56/66

Technical Data

Material:	Door:	Glass fibre reinforced unsaturated polyester
	Mounting plate:	3mm sheet steel zinc plated
	Viewing window:	Impact resistant 3.0mm glazed acrylic
Temperature resistance:	Up to 150°C (transparent cover version 120°C)	
Approvals:	UL, CSA & Lloyd's	



Compact Enclosure

Dimensions					
H (mm)	W (mm)	D (mm)	IP Rating	No. of doors	Part No.
300	380	155	66	1	1030.500
300	380	210	66	1	1031.500
300	200	120	66	1	1032.500
300	300	210	66	1	1033.500
400	300	210	66	1	1034.500
300	200	155	66	1	1035.500
300	300	155	66	1	1036.500
800	400	300	66	1	1037.500
600	380	210	66	1	1038.500
380	600	210	66	1	1039.500
500	400	210	66	1	1045.500
500	500	210	66	1	1050.500
600	600	250	66	1	1054.500
600	800	300	66	1	1055.500
700	500	250	66	1	1057.500
800	600	250	66	1	1058.500
600	600	210	66	1	1060.500
760	760	300	66	1	1073.500
760	600	210	66	1	1076.500
760	760	210	66	1	1077.500
1000	600	250	56	1	1090.500
760	1000	210	56	2	1100.500
1000	1000	300	56	2	1110.500
1400	1000	300	56	2	1114.500
760	1000	300	56	2	1130.500
1000	800	300	55	1	1180.500
1200	1000	300	55	2	1213.500
1200	600	300	56	1	1260.500
1200	800	300	56	1	1280.500
600	380	350	56	1	1338.500
380	600	350	55	1	1339.500
500	500	300	56	1	1350.500
600	600	350	56	1	1360.500
760	600	350	55	1	1376.500
380	380	210	55	1	1380.500

Can be supplied with a glazed door.

Accessories

Description	Wall Distance (mm)	Pack Qty.	Part No.
Wall Mounting Brackets			
Steel	10	4	2508.010
	40	4	2503.010
	15	4	2508.100

Plinths

Width x Depth (mm)	Height (mm)	Part No.
600 x 300	100	2816.200
	200	2826.200
800 x 300	100	2818.200
	200	2828.200
1000 x 300	100	2801.200
	200	2802.200

Ancillaries

Description	Pack Qty.	Part No.	
Universal bracket: for simple mounting of accessories		2373.000	
Door stay	5	2519.000	
Rails	210	4	2383.210
	250	4	2383.250
	300	4	2383.300
	350	4	2383.350
Mounting bars	500/1000	20	2325.000
	600	20	2326.000
Baying kit		1199.100	
180° hinge	2	2449.000	
LED Lights		2500.110	
Infeed, 2-pole (with socket, without connector)		2500.420	
Dust guard		2426.500	
Document pocket	A5 Landscape	2515.000	
	A4 portrait	2514.000	
	A3 Landscape	2513.000	
Eyebolts	4	2509.000	

Rain canopies also available.



Locks
Fitted as standard with a double-bit lock. This may be changed for:-

- Lock inserts (Version A)
- Cylinder inserts (Version B)
- Plastic handles (Version B)
- T handles (Version B)



Spacial S3X

The Spacial S3X range of wall mounting enclosures are specifically designed for the chemical, oil and gas, food and beverage industries, among others, which are particularly demanding in terms of hygiene and resistance corrosion.

Technical Data

Material: 304L Stainless steel
Finish: Scotch-Brite® brushed

S3X Stainless Steel Wall Enclosure

Description	Dimensions			Part No.
	H (mm)	W (mm)	D (mm)	
Contains 4 rear drill holes for easy fixing onto walls or machines, (use 304L fixing lugs, order separately ref: NSYPFCX) Stainless steel hinges screwed to the body of the enclosure, making it easy to remove and invert the door	300	200	150	NSYS3X3215
	300	300	150	NSYS3X3315
	400	300	150	NSYS3X4315
	400	300	200	NSYS3X4320
	400	400	200	NSYS3X4420
	400	600	200	NSYS3X4620
	500	400	200	NSYS3X5420
	600	400	200	NSYS3X6420
	600	600	250	NSYS3X6625
	700	500	250	NSYS3X7525
	800	600	250	NSYS3X8625
	800	800	300	NSYS3X8830
	1000	800	300	NSYS3X10830
	1200	800	300	NSYS3X12830
	1200	1000	300	NSYS3X121030

Accessories for Spacial S3D, S3X & Thalassa PLM

Plain steel mounting plates with reversible dimensions; it can be installed in enclosures with inverted dimensions. Example: Plate ref. NSYMM64 can be used in H600xW400mm enclosures and H400xW600mm enclosures.

Plain Mounting Plates

Description	Dimensions		Part No.
	H (mm)	W (mm)	
Galvanised steel mounting plates A supply of 1 mounting plate with fixing elements	300	200	NSYMM32
	300	250	NSYMM3025
	300	300	NSYMM33
	400	300	NSYMM43
	400	400	NSYMM44
	400	800	NSYMM48
	500	300	NSYMM53
	500	400	NSYMM54
	500	500	NSYMM55
	600	400	NSYMM64
	600	600	NSYMM66
	700	500	NSYMM75
	800	600	NSYMM86
	800	800	NSYMM88
	1000	600	NSYMM106
	1000	800	NSYMM108
1000	1000	NSYMM1010	
1200	800	NSYMM128	
1200	1000	NSYMM1210	

AE Range

Industrial stainless steel enclosures.

IP55/IP66

Technical Data

Material: Stainless steel 1.4301 (AISI 304) or 1.4404 (AISI 316L)
 Finish: Brushed
 Approvals: UL, CSA, VDE amongst others



Compact Enclosures

Dimensions					
H (mm)	W (mm)	D (mm)	IP Rating	No. Of Doors	Part No.
300	200	120	66	1	1001.600
300	200	155	66	1	1002.500
300	200	155	66	1	1002.600
300	300	210	66	1	1003.600
300	380	155	66	1	1004.600
380	300	210	66	1	1005.500
380	300	210	66	1	1005.600
380	380	210	66	1	1006.500
380	380	210	66	1	1006.600
500	500	210	66	1	1007.600
600	380	210	66	1	1008.600
380	600	210	66	1	1009.600
600	600	210	66	1	1010.500
600	600	210	66	1	1010.600
300	380	210	66	1	1011.600
760	600	210	66	1	1012.600
500	500	300	66	1	1013.600
760	760	300	66	1	1014.600
500	400	210	66	1	1015.600
1000	800	300	66	1	1016.600
1200	800	300	66	1	1017.600
1000	1000	300	55	2	1018.600
1200	1000	300	55	2	1019.500
1200	1000	300	55	2	1019.600

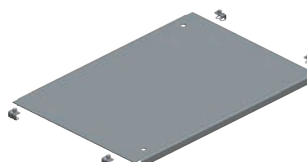
Parts ending 600 are AISI 304.

Parts ending 500 are AISI 316L4.

Accessories

Wall Mounting Brackets

Description	Wall Distance (mm)	Pack Qty	Part No.
Stainless steel 304	10	4	2433.000
Stainless steel 316L			2433.500



Spacial SM

Compact range is a convenient ready-to-use option for floor standing enclosures. It is robust in its design and is equipped with two height-adjustable door rails for fixing cables. It also has a 4 point locking system and a cable gland plate in two parts making it a quick and practical solution.

Technical Data

Material: Sheet steel
Finish: Painted with epoxy-polyester resin, textured RAL 7035 grey

Single Door - Monoblock

Description	Dimensions			Part No.
	H (mm)	W (mm)	D (mm)	
Structure: body made from sheet steel, welded rear panel, with the front forming a rigid frame with welded corners. Standard locking system with handle and 5mm double-bar insert.	1400	600	400	NSYSM14640P
	1400	800	400	NSYSM14840P
	1600	600	300	NSYSM16630P
	1600	600	400	NSYSM16640P
	1600	800	300	NSYSM16830P
	1600	800	400	NSYSM16840P
	1800	600	400	NSYSM18640P
	1800	800	400	NSYSM18840P
	1800	800	500	NSYSM18850P
	2000	600	400	NSYSM20640P
	2000	800	400	NSYSM20840P
	2000	800	500	NSYSM20850P

Two Door - Monoblock

Structure: body made from sheet steel, welded rear panel, with the front forming a rigid frame with welded corners. Standard locking system with handle and 5mm double-bar insert, double doors are overlapping with system for fixing the left door.	1200	1000	300	NSYSM1210302DP
	1400	1200	400	NSYSM1412402DP
	1600	1000	400	NSYSM1610402DP
	1600	1200	400	NSYSM1612402DP
	1800	1200	400	NSYSM1812402DP
	1800	1000	400	NSYSM1810402DP
	1800	1200	500	NSYSM1812502DP
	1800	1600	400	NSYSM1816402DP
	2000	1000	400	NSYSM2010402DP
	2000	1000	500	NSYSM2010502DP
	2000	1200	400	NSYSM2012402DP
	2000	1600	400	NSYSM2016402DP
2000	1600	500	NSYSM2016502DP	

Spacial SF

Suitable metal floor standing enclosure is made up of: 4 uprights and 2 frames, top and bottom. Thanks to its use of a single, laser-welded, galvanised structure, the enclosure has great robustness. The Spacial SF allows several enclosures to be coupled with full versatility, offering the possibility of creating any desired shape of coupled enclosures.

Technical Data

Material: Sheet steel
Finish: Painted with epoxy-polyester resin, textured RAL 7035 grey

Assembled Modular Floor Enclosures

Description	Dimensions			Part No.
	H (mm)	W (mm)	D (mm)	
Pre-assembled structure with plain door, rear panel, removable roof and 4 support brackets for the mounting plate. Single door: Standard locking system with handle and 5mm double-bar insert. Double doors: Standard locking system with handle and 5mm double-bar insert, double doors are overlapping with system for fixing the left door.	1800	800	600	NSYSF18860P
	2000	600	800	NSYSF20680P
	1800	600	400	NSYSF18640P
	1800	600	600	NSYSF18660P
	1800	800	500	NSYSF18850P
	2000	600	400	NSYSF20640P
	2000	600	800	NSYSF20680P
	2000	800	400	NSYSF20840P
	2000	1000	400	NSYSF201040P
	1800	1200	600	NSYSF1812602DP
	2000	1000	400	NSYSF2010402DP
	2000	1200	400	NSYSF2012402DP
2000	1200	600	NSYSF2012602DP	

Side Panels

Description	Dimensions		Part No.
	H (mm)	W (mm)	
Set of 2 side panels. Fixed from the outside of the enclosure. Supplied with captive screws.	1200	600	NSY2SP126
	1400	400	NSY2SP184
	1800	500	NSY2SP185
	1800	600	NSY2SP186
	2000	400	NSY2SP204
	2000	600	NSY2SP206
	2000	800	NSY2SP208

Plain Cable Gland Plate

Description	Dimensions		Part No.
	H (mm)	W (mm)	
Plain plate supplied with fixing elements. Each plate has 2 drill holes with an 8mm diameter, covered with a plug.	600	400	NSYEC64
	600	800	NSYEC68
	800	400	NSYEC84
	800	500	NSYEC85
	800	600	NSYEC86
	1000	400	NSYEC104
	1200	400	NSYEC124
	1200	600	NSYEC126

1 Entry Cable Gland Plate

Plate with 1 entry, adhesive gasket and fixing elements. Each plate has 2 drill holes with an 8mm diameter, covered with a plug.	1000	400	NSYEC1041
	1200	400	NSYEC1241
	1200	600	NSYEC1261
	800	600	NSYEC861

Standard Coupling Kit for SF

Description	Function	Part No.
Coupling kit includes 4 brackets, 2 flat connectors, sealing gasket and fixing elements	Fixing from inside of the enclosures, used for joining enclosures side-by-side or depthwise	NSYSFBK

Accessories for Spacial SF & Spacial SM

Accessories applicable to both the Spacial SF & SM range of enclosures.

Front Plinths

Description	Dimensions		Part No.
	H (mm)	W (mm)	
4 corners, 2 panels (front and rear), 4 corner covers and fixing elements. Maximum load of 1300kg.	600	100	NSYSPPF6100
	600	200	NSYSPPF6200
	800	100	NSYSPPF8100
	800	200	NSYSPPF8200
	1000	100	NSYSPPF10100
	1000	200	NSYSPPF10200
	1200	100	NSYSPPF12100
	1200	200	NSYSPPF12200
	1600	100	NSYSPPF16100
	1600	200	NSYSPPF16200

Plinth Side Panels

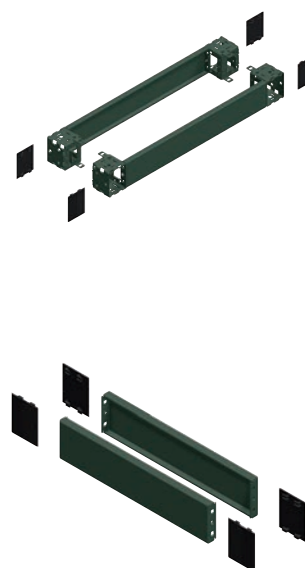
2 side panels, 4 corner covers and fixing elements	300	100	NSYSPPS3100
	300	200	NSYSPPS3200
	400	100	NSYSPPS4100
	400	200	NSYSPPS4200
	500	100	NSYSPPS5100
	500	200	NSYSPPS5200
	600	100	NSYSPPS6100
	600	200	NSYSPPS6200
	800	100	NSYSPPS8100
	800	200	NSYSPPS8200

Document Pockets

Description	Type	Part No.
One plastic document pocket	A4 plastic document pocket - D22	NSYDPA4
	A5 plastic document pocket - D40	NSYDPA5

Lifting Eyes

Description	Type	Part No.
M12 eyebolts screw directly into the structure of the enclosure. Maximum load of 340kg per bolt	Set of 4 lifting eyebolts	NSYSFEB
M12 lifting eyebolts, fixed to the enclosure by fixing nuts. 600kg Maximum load (4 brackets).	Set of 4 lifting eyebolts and 4 fixing nuts	NSYSMEB





CM Compact Range

IP55

Metal enclosures available with or without viewing window.

Technical Data

Material: Mild steel 1.5mm; Door 2.0mm
 Enclosure and doors: Powder coated in textured RAL 7035
 Mounting plate: Zinc plated
 Approvals: UL, CSA, VDE amongst others

Enclosures

Dimensions			No. Of Doors	Part No.
H (mm)	W (mm)	D (mm)		
800	600	400	1	5110.500
1000	600	400	1	5111.500
1200	600	300	1	5112.500
1200	600	400	1	5113.500
1000	800	300	1	5114.500
1000	800	400	1	5115.500
1200	800	300	1	5116.500
1200	800	400	1	5117.500
1000	1000	300	2	5118.500
1200	1000	300	2	5119.500
1200	1000	400	2	5120.500
1400	1000	300	2	5121.500
1400	1000	400	2	5122.500
1200	1200	400	2	5123.500

System Enclosures SE 8 Range

IP55

Enclosure widths ranging from 600 to 1800mm time-saving assembly work due to the extruded side panels.

Technical Data

Material: Enclosure: Sheet steel 1.5 mm Door: Sheet steel, 2.0mm
 Finish: Enclosure, door and rear panel: Dipcoat-primed, powder-coated (RAL 7035).
 Mounting plate and gland plates: Zinc-plated
 Approvals: UL, CSA, VDE amongst others

Enclosures

Dimensions					No. Of Doors	Part No.
H (mm)	W (mm)	D (mm)	IP Rating			
1800	600	400	55	1	5830.500	
1800	800	400	55	1	5831.500	
2000	800	400	55	1	5832.500	
2000	800	500	55	1	5833.500	
2000	800	600	55	1	5834.500	
1800	1000	400	55	2	5840.500	
1800	1200	400	55	2	5841.500	
1800	1600	400	55	2	5842.500	
2000	1200	400	55	2	5843.500	
2000	1200	500	55	2	5844.500	
2000	1200	600	55	2	5845.500	
2000	1800	500	55	2	5846.500	

Locks

Fitted as standard with a double-bit lock. This may be changed for:-

Lock inserts (Version A)
 Ergoform-S lock system



VX25. SYSTEM PERFECTION.



Technical Data

Material:	Sheet steel	Door 2.0mm; Rear panel 1.5mm
Finish:	Enclosure:	Dipcoat-primed
	Roof, door and rear panel:	Dipcoat-primed, powder coated on outside, textured paint
	Walls:	Dipcoat-primed, powder coated on outside
Colour:	Mounting plate:	Zinc-plated
Protection category IP to IEC 60 529:	RAL 7035	
Nema protection category:	IP55	
Approvals:	NEMA 12	
	UL, cUL	

Supply includes:	Enclosure frame
	Door(s) (r/h hinge, may be swapped to opposite side)
	Roof plate
	Rear panel
	Gland plates
	Mounting plate
	2 Punched rails 18x39mm
	Lock: 3mm double-bit

Enclosures (Baying)

H (mm)	W (mm)	D (mm)	No. of Doors	Part No.
1200	600	500	1	8615.000
1200	800	500	1	8815.000
1200	1200	500	2	8215.000
1400	600	500	1	8645.000
1400	800	500	1	8845.000
1400	1200	500	2	8245.000
1600	600	500	1	8665.000
1600	800	500	1	8865.000
1600	1200	500	2	8265.000
1800	600	400	1	8684.000
1800	800	400	1	8884.000
1800	1000	400	1	8084.000
1800	1000	400	2	8080.000
1800	1200	400	2	8284.000
1800	400	500	1	8485.000
1800	600	500	1	8685.000
1800	800	500	1	8885.000
1800	800	500	2	8880.000
1800	1200	500	2	8285.000
1800	400	600	1	8486.000
1800	600	600	1	8686.000
1800	800	600	1	8886.000
1800	800	600	2	8881.000
1800	1200	600	2	8286.000
2000	600	400	1	8604.000
2000	800	400	1	8804.000
2000	1000	400	2	8004.000
2000	1200	400	2	8204.000
2000	400	500	1	8405.000
2000	600	500	1	8605.000
2000	800	500	1	8805.000
2000	1000	500	2	8005.000
2000	1200	500	2	8205.000
2000	400	600	1	8406.000
2000	600	600	1	8606.000
2000	800	600	1	8806.000
2000	1000	600	2	8006.000
2000	1200	600	2	8206.000
2000	600	800	1	8608.000
2000	800	800	1	8808.000
2000	1200	800	2	8208.000
2200	600	600	1	8626.000
2200	800	600	1	8826.000
2200	1200	600	2	8226.000





VX25 Walls

Technical Data

Material: Sheet steel, 1.5mm
 Finish: Dipcoat-primed, powder coated on outside
 Colour: RAL 7035
 Protection category IP to IEC 60 529: IP55

Supply includes: 4 base/plinth trim panels
 Assembly parts

Side Panels

For Enclosures		Pack Qty	Part No.
H (mm)	D (mm)		
1200	500	2	8115.245
1400	500	2	8145.245
1600	500	2	8165.245
1600	600	2	8166.245
1600	800	2	8168.245
1800	400	2	8184.245
1800	500	2	8185.245
1800	600	2	8186.245
2000	400	2	8104.245
2000	500	2	8105.245
2000	600	2	8106.245
2000	800	2	8108.245
2200	600	2	8126.245
2200	800	2	8128.245



VX25 Base/Plinth Corner Pieces with Base/Plinth Trim Panels, Front & Rear

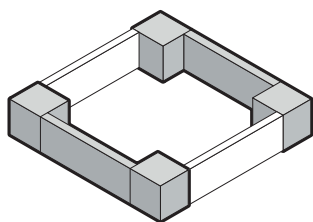
Technical Data

Material: Base/plinth corner piece: Sheet steel
 Base/plinth trim panel front/rear: Sheet steel
 Corner and baying cover: Plastic
 Colour: RAL 9005

Supply includes: 4 base/plinth corner pieces
 4 corner covers
 1 baying cover
 2 base/plinth trim panels, front/rear
 Assembly parts

Base/Plinth

For Enclosure Width (mm)	100mm High	200mm High
	Part No.	Part No.
300	8620.000	8620.020
400	8620.001	8620.021
600	8620.002	8620.022
800	8620.003	8620.023
1000	8620.005	8620.024
1200	8620.007	8620.025
1600	8620.008	8620.026
1800	8620.009	8620.027



VX25 Base/Plinth Trim Panels, Sides

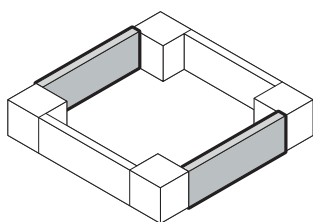
Technical Data

Material: Sheet steel
 Colour: RAL 9005

Supply includes: 4 base/plinth trim panels
 Assembly parts

Base/Plinth

For Enclosure Width (mm)	100mm	200mm
	Part No.	Part No.
300	8620.030	8620.040
400	8620.031	8620.041
500	8620.032	8620.042
600	8620.033	8620.043
800	8620.034	8620.044
1000	8620.035	8620.045
1200	8620.036	8620.046



Accessories

Levelling Feet			
Description	Pack Qty.	Part No.	
Levelling feet	4	4612.000	
Adaptor bracket (sheet steel)	4	8100.770	
Adaptor bracket (stainless steel)	4	8100.771	
Door stay	1	8618.400	

In case of an emergency, conventional door stays can block the escape route. This stay is actuated automatically in the event of pressure, releasing the door in both directions. In conjunction with 180° hinges, this ensures that no escape routes are blocked by open doors in the event of an emergency.

Mounting Plate Infills	
Enclosure Height (mm)	Part No.
1800	4590.700
2000	4591.700
2200	4592.700

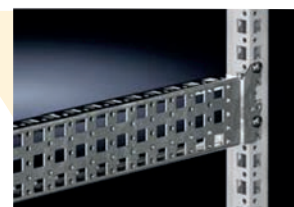
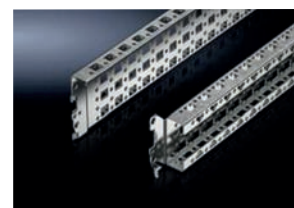
Baying Technology			
Description	Pack Qty.	Part No.	
Internal Baying Bracket	6	8617.500	
Internal Baying Block	6	8617.501	
External Baying Connector Steel	6	8617.502	
External Baying Connector Stainless Steel	6	8617.503	

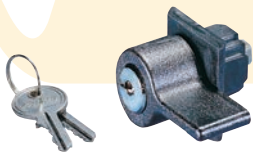
Rail Systems			
Type	To Fit Dimensions (mm)	Pack Qty.	Part No.
Punched rail outer	18 x 64mm	4	8617.000
		4	8617.010
		4	8617.020
		4	8617.030
		4	8617.040
		4	8617.050
Punched rail inner	18 x 39mm	4	8617.060
		4	8617.700
		4	8617.710
		4	8617.720
		4	8617.730
	Punched rail inner	23 x 64mm	4
		4	8617.110
		4	8617.120
		4	8617.130
		4	8617.140
		4	8617.150
		4	8617.160
		4	8617.170
		4	8617.180
		4	8617.190
		4	8617.200
		4	8617.210
Punched rail inner	23 x 89mm	4	8100.730
		4	8100.731
		4	8100.732
		4	8100.733

Horizontal Support Strips		
Enclosure Depth (mm)	Pack Qty.	Part No.
400	20	4694.000
500	20	4695.000
600	20	4696.000
800	20	4697.000



Baying Technology





Lock Systems

Version A. Die-cast zinc, length 27mm

Lock Inserts	
Type	Part No.
7mm square	2460.000
8mm square	2461.000
7mm triangular	2462.000
8mm triangular	2463.000
Screwdriver	2464.000
Daimler-Benz insert	2465.000
3mm double-bit	2466.000
Fiat	2307.000

Version B. Die-cast Zinc.

Cylinder Inserts	
Type	Part No.
Lock No. 3524E with 2 keys	2571.000

Version B.

Plastic Handles	
Type	Part No.
With cylinder insert lock No. 3524E with 2 keys	2576.000
Without cylinder insert	2533.000

Version B. Diecast Zinc, Plated

T Handles	
Type	Part No.
With cylinder insert lock No. 3524E with 2 keys	2575.000
Without cylinder insert	2572.000

Cam Locks		
Type		Part No.
Die-cast zinc, nickel plated	With double bit insert	2520.000
	With cylinder insert (lock No. 3524E)	2530.000
	With double bit insert	2420.000
GRP format	With cylinder insert (lock No. 3524E)	2430.000
	With security lock	2540.500

Ergoform-S System

Ease of operation and security are the distinguishing features of the Ergoform-S clip-down handle.

The sturdy die-cast zinc lock system is easily fitted, with no need for any machining of the door.

The handle springs forward automatically for use.

Prepared for installation of 40/45mm semi-cylinders, and all 27mm lock inserts (Version A)

Standard Handles	
Type	Part No.
RAL 7035 brown	2456.500
Brown	2453.000
Matt nickel	2452.000
RAL 7035	2435.000

Lock Inserts	
Type	Part No.
Lock insert lock No. 3524E	2467.000
Push button insert	2468.000
Lock and push button insert lock No. 2123	2469.000

Spacial SMX Series

Stainless steel floor standing monoblock.

Technical Data

Material:	Stainless steel
Finish:	Scotch Brite®
Mounting Plate:	To be ordered separately

IP55/IK10



Stainless Steel Floor Standing Monoblock

External Dimensions			No. Of Doors	304L	316L
H (mm)	W (mm)	D (mm)		Part No.	Part No.
1400	1000	300	2	NSYSMX141030	-
1600	600	600	-	-	-
1600	800	400	1	NSYSMX16840	-
1800	600	400	1	NSYSMX18640	-
1800	600	600	-	-	-
1800	800	400	1	NSYSMX18840	NSYSMX18840H
1800	1200	400	2	NSYSMX181240	NSYSMX181240H
1800	1600	400	2	NSYSMX181640	NSYSMX181640H
2000	600	500	-	-	-
2000	800	400	-	-	-
2000	800	500	1	NSYSMX20850	-
2000	800	600	-	-	-
2000	1000	400	2	NSYSMX201040	NSYSMX201040H
2000	1000	600	-	-	-
2000	1200	500	2	NSYSMX201250	NSYSMX201250H
2000	1200	600	-	-	-
2000	1600	600	2	NSYSMX201660	NSYSMX201660H

Spacial SFX Series

Stainless steel floor standing modular.

Technical Data

Material:	Stainless steel
Finish:	Scotch Brite®
Mounting Plate:	To be ordered separately

IP55/IK10



Stainless Steel Floor Standing Suitable 304L⁽¹⁾

External Dimensions			No. of doors	Suitable Enclosure	Set of 2 Side Panels
H (mm)	W (mm)	D (mm)		Part No.	Part No.
1400	1000	300	2	-	-
1600	600	600	-	-	-
1600	800	400	1	-	-
1800	600	400	1	NSYSFX18640	NSY2SPX184
1800	600	600	-	-	-
1800	800	400	1	NSYSFX18840	NSY2SPX184
1800	1200	400	2	NSYSFX181240	NSY2SPX184
1800	1600	400	2	-	-
2000	600	500	-	NSYSFX20650	NSY2SPX205
2000	800	400	-	NSYSFX20840	NSY2SPX204
2000	800	500	1	-	-
2000	800	600	-	NSYSFX20860	NSY2SPX206
2000	1000	400	2	-	-
2000	1000	600	-	NSYSFX201060	NSY2SPX206
2000	1200	500	2	-	-
2000	1200	600	-	NSYSFX201260	NSY2SPX206
2000	1600	600	2	-	-

(1) 316L stainless steel enclosures on request.

Spacial SMX / SFX Series

Accessories

Type	Part No.
Wall-fixing lugs for SMX	NSYFCMX
Eyebolts	NSYSMEB
Hygienic feet for SMX (Height: 140 to 200mm)	NSYPHX200
Coupling kit	NSYFBK19 + NSYSFXJG
Lifting bracket	NSYPUNX
Door switch for SFX	NSYDCM20

Floor Standing Stainless Steel Enclosures



Spacial SMX / SFX Series

Closure Options

Type	Pack Quantity	Part No.
Spare handle	1	NSYMC SX
5mm double-bar insert	1	NSYDDB5ME
6mm square insert	1	NSYTC6ME
7mm square insert	1	NSYTC7ME
8mm square insert	1	NSYTC8ME
6.5mm triangular insert	1	NSYTT6ME
8mm triangular insert	1	NSYTT8ME
Padlocking device	1	NSYBCME
Barrel and key 405ME	1	NSYTCL405ME
Barrel and key 610	1	NSYTCL610ME
Barrel and key 1242E	1	NSYTL1242EME

Top Mounting Canopy

External dimensions		SMX	SFX
W (mm)	D (mm)	Part No.	Part No.
600	400	NSYSCX6040	NSYSCX6040
600	500	NSYSCX6050	NSYSCX6050
800	400	NSYSCX8040	NSYSCX8040
800	500	NSYSCX8050	-
800	600	NSYSCX8060	NSYSCX8060
1000	300	NSYSCX10030	-
1000	400	NSYSCX10040	-
1000	600	NSYSCX10060	NSYSCX10060
1200	400	NSYSCX12040	NSYSCX12040
1200	500	NSYSCX12050	-
1200	600	NSYSCX12060	NSYSCX12060
1600	400	NSYSCX16040	-
1600	600	NSYSCX16060	-

Stainless Steel Plinths, AISI 304L

External Dimensions			Plinth Height 100mm		Plinth Height 200mm	
H (mm)	W (mm)	D (mm)	Kit (4 Corners + Front and Back) Part No.	Set of 2 side panels Part No.	Kit (4 Corners + front and Back) Part No.	Set of 2 side panels (x2) Part No.
1400	1000	300	NSYSPFX10100	NSYSPSX3100*	NSYSPFX10200	NSYSPSX3200*
1600	800	400	NSYSPFX8100	NSYSPSX4100**	NSYSPFX8200	NSYSPSX4200**
1800	600	400	NSYSPFX6100	NSYSPSX4100**	NSYSPFX6200	NSYSPSX4200**
1800	800	400	NSYSPFX8100	NSYSPSX4100**	NSYSPFX8200	NSYSPSX4200**
1800	1200	400	NSYSPFX12100	NSYSPSX4100**	NSYSPFX12200	NSYSPSX4200**
1800	1600	400	NSYSPFX16100*	NSYSPSX4100**	NSYSPFX16200*	NSYSPSX4200**
2000	600	500	NSYSPFX6100	NSYSPSX5100**	NSYSPFX6200	NSYSPSX5200**
2000	800	400	NSYSPFX8100	NSYSPSX4100**	NSYSPFX8200	NSYSPSX4200**
2000	800	500	NSYSPFX8100	NSYSPSX5100**	NSYSPFX8200	NSYSPSX5200**
2000	800	600	NSYSPFX8100	NSYSPSX6100**	NSYSPFX8200	NSYSPSX6200**
2000	1000	400	NSYSPFX10100	NSYSPSX4100**	NSYSPFX10200	NSYSPSX4200**
2000	1000	600	NSYSPFX10100	NSYSPSX6100**	NSYSPFX10200	NSYSPSX6200**
2000	1200	500	NSYSPFX12100	NSYSPSX5100**	NSYSPFX12200	NSYSPSX5200**
2000	1200	600	NSYSPFX12100	NSYSPSX6100**	NSYSPFX12200	NSYSPSX6200**
2000	1600	600	NSYSPFX16100*	NSYSPSX6100**	NSYSPFX16200*	NSYSPSX6200**

Stainless Steel Plinths, AISI 316L

External Dimensions			Plinth Height 100mm		Plinth Height 200mm	
H (mm)	W (mm)	D (mm)	Kit (4 Corners + Front and Back) Part No.	Set Of 2 Side Panels Part No.	Kit (4 Corners + Front and Back) Part No.	Set Of 2 Side Panels (x2) Part No.
1400	1000	300	NSYSPFX10100H	NSYSPSX3100H*	NSYSPFX10200H	NSYSPSX3200H*
1600	800	400	NSYSPFX8100H	NSYSPSX4100H	NSYSPFX8200H	NSYSPSX4200H
1800	600	400	-	NSYSPSX4100H	-	NSYSPSX4200H
1800	800	400	NSYSPFX8100H	NSYSPSX4100H	NSYSPFX8200H	NSYSPSX4200H
1800	1200	400	NSYSPFX12100H	NSYSPSX4100H	NSYSPFX12200H	NSYSPSX4200H
1800	1600	400	NSYSPFX16100H*	NSYSPSX4100H	NSYSPFX16200H*	NSYSPSX4200H
2000	600	500	-	NSYSPSX5100H	-	NSYSPSX5200H
2000	800	400	NSYSPFX8100H	NSYSPSX4100H	NSYSPFX8200H	NSYSPSX4200H
2000	800	500	NSYSPFX8100H	NSYSPSX5100H	NSYSPFX8200H	NSYSPSX5200H
2000	800	600	NSYSPFX8100H	NSYSPSX6100H	NSYSPFX8200H	NSYSPSX6200H
2000	1000	400	NSYSPFX10100H	NSYSPSX4100H	NSYSPFX10200H	NSYSPSX4200H
2000	1000	600	NSYSPFX10100H	NSYSPSX6100H	NSYSPFX10200H	NSYSPSX6200H
2000	1200	500	NSYSPFX12100H	NSYSPSX5100H	NSYSPFX12200H	NSYSPSX5200H
2000	1200	600	NSYSPFX12100H	NSYSPSX6100H	NSYSPFX12200H	NSYSPSX6200H
2000	1600	600	NSYSPFX16100H*	NSYSPSX6100H	NSYSPFX16200H*	NSYSPSX6200H

*Only for SMX

**For SFX add SF to end of part number

TS8 Baying Systems

Floor mounting stainless steel baying systems.

Technical Data

Material: Stainless steel 1.4301 (AISI 304); Door 2.0mm; Rear panel 1.5mm
 Finish: Enclosure and doors: Brushed
 Mounting plate: Zinc-plated
 Approvals: UL, CSA, Lloyds

IP55



Enclosures				Enclosures	Side Panels
H (mm)	W (mm)	D (mm)	No. of Doors	Part No.	Part No.
1800	600	500	1	8457.600	8700.850
1800	800	400	1	8454.600	8700.840
1800	800	500	1	8455.600	8700.850
1800	1200	400	2	8456.600	8700.840
1800	1200	500	2	8453.600	8700.850
2000	600	600	1	8452.600	8700.060
2000	1200	600	2	8451.600	8700.060
2000	800	600	1	8450.600	8700.060

Plinths			Side Plinths	Front/Rear Plinths
Width (mm)	Depth (mm)	Height (mm)	(Pk of 2) Part No.	(Pk of 2) Part No.
600	500	100	8701.050	8701.600
		200	8702.050	8702.600
600	600	100	8701.060	8701.600
		200	8702.060	8702.600
800	400	100	8701.040	8701.800
		200	8702.040	8702.800
800	500	100	8701.050	8701.800
		200	8702.050	8702.800
800	600	100	8701.060	8701.800
		200	8702.060	8702.800
1200	400	100	8701.040	8701.200
		200	8702.040	8702.200
1200	500	100	8701.050	8701.200
		200	8702.050	8702.200
1200	600	100	8701.060	8701.200
		200	8702.060	8702.200

To make up plinths you must purchase both side plinths and front/rear plinths for appropriate enclosure (width x depth).



Spacial SD / SDF Series

IP55/IK10

The Control and Human-Machine Dialogue enclosures offer, ideal for all your interfaces.

Spacial SD Compact Control Desk							
External Dimensions			With Fixed Rear Panel		With Removable Rear Panel		
H (mm)	W (mm)	D (mm)	1 Door Part No.	2 Doors Part No.	1 Door Part No.	2 Doors Part No.	
1000	600	469	NSYSYD6	-	-	-	
1000	600	500	-	-	-	-	
1000	800	469	NSYSYD8	-	-	-	
1000	800	500	-	-	-	-	
1000	1000	469	-	NSYSYD10	-	-	
1000	1200	469	-	NSYSYD12	-	-	
1000	600	600	-	-	NSYSYD6R	-	
1000	800	600	-	-	NSYSYD8R	-	
1000	1000	500	-	-	-	-	
1000	1000	600	-	-	-	NSYSYD10R	
1000	1200	500	-	-	-	-	
1000	1200	600	-	-	-	NSYSYD12R	

Spacial SDF Control Desk with Consol				
External Dimensions			With Rear Door	
H (mm)	W (mm)	D (mm)	1 Door Part No.	2 Doors Part No.
1400	800	845	NSYSDF88	-
1400	1000	845	-	NSYSDF108
1400	1200	845	-	NSYSDF128
1400	1600	845	-	NSYSDF168
1400	800	1045	NSYSDF810	-
1400	1000	1045	-	NSYSDF1010
1400	1200	1045	-	NSYSDF1210
1400	1600	1045	-	NSYSDF1610



One Piece TP Series

IP55/IK08

One-piece consoles TP, ready-to-use component with high protection category IP55 in four different widths. Tool-free assembly of the cover with a lid stay. Compatibility with TS8 system accessories, such as base/plinths and cable entry grommets.

One Piece TP Consoles				
External Dimensions				
H (mm)	W (mm)	D Bottom (mm)	D Top (mm)	Part No.
973	1000	400	520	6740.500
973	1200	400	520	6742.500
973	600	400	520	6746.500
973	800	400	520	6748.500

Universal TP Series

IP55/IK08

Universal consoles TP, high level of stability and protection category IP55 because the body is more or less manufactured from a single piece

Universal TP Consoles					
External Dimensions					
H (mm)	W (mm)	D Bottom (mm)	D Top (mm)	Design	Part No.
1300	600	500	417.5	With short front door	2694.500
1300	600	500	417.5	With tall front door	2695.500

Universal TP Console Desk Section	
H (mm)	Part No.
200	2696.500

Spacial S3DEX Atex Series

IP66/IK10

Solutions to protect electrical equipment from a potentially explosive atmosphere.

Technical Data

Material: Steel
Finish: Grey RAL 7035

Enclosures for Explosive Atmospheres

External Dimensions			Part No.
H (mm)	W (mm)	D (mm)	
300	200	150	NSYS3DEX3215
300	300	200	NSYS3DEX3320
400	300	200	NSYS3DEX4320
400	400	200	NSYS3DEX4420
400	600	200	-
500	400	200	NSYS3DEX5420
600	400	200	-
600	400	250	NSYS3DEX6425
600	600	250	NSYS3DEX6625
700	500	250	NSYS3DEX7525
800	600	300	NSYS3DEX8630
1000	800	300	NSYS3DEX10830
1200	800	300	-

* Mounting plates ordered separately
Stainless steel & GRP versions available on request.



Spacial S3HF EMC Series*

IP55/IK10

Solutions to protect a machine from malfunctions due to electromagnetic disturbance.

Technical Data

Material: Aluzinc 150
Finish: Epoxy-polyester resin Grey RAL 7035

Electromagnetic Protected Steel Enclosures

External Dimensions			Part No.
H (mm)	W (mm)	D (mm)	
300	200	150	-
300	300	200	-
400	300	200	NSYS3HF4320P
400	400	200	-
400	600	200	NSYS3HF4620P
500	400	200	NSYS3HF5420P
600	400	200	NSYS3HF6420P
600	400	250	-
600	600	250	NSYS3HF6625P
700	500	250	NSYS3HF7525P
800	600	300	NSYS3HF8630P
1000	800	300	NSYS3HF10830P
1200	800	300	NSYS3HF12830P

* Delivered with a plain mounting plate.
Fixing lugs, ref. NSYPFCR to be ordered separately (1 set of 4 lugs).
Floor standing version available on request.





Spacial S3HD - Outdoor Heavy Duty Enclosures

IP66/IK10

Spacial S3HD, Outdoor Heavy Duty (HD), enclosures are made of coated steel and are designed for outdoor private areas with harsh environments. They are engineered to resist aggressive environments achieving the anti-corrosion certification class C4H, ISO 12944:1999.

Technical Data

Material: Heavy duty steel with anti-corrosive coating
 Finish: 100% polyester powder RAL 7035 grey

Spacial S3HD Wall Mounting Enclosures

Description	Dimensions			Part No.
	H (mm)	W (mm)	D (mm)	
HD steel with anti-corrosive coating	343	200	180	NSYS3HD3215
Structured finish, 100% polyester powder.	448	300	230	NSYS3HD4320
	548	400	230	NSYS3HD5420
	653	400	280	NSYS3HD6425
Outdoor and/or harsh environments	658	600	330	Without mounting plate NSYS3HD6630
	753	500	280	NSYS3HD7525
- Curved canopy	858	600	330	NSYS3HD8630
- 3mm double bar lock	862	800	430	NSYS3HD8840
- A4 plastic document pocket	1062	600	430	NSYS3HD10640
- Door retainer - Aluminium	1062	800	430	NSYS3HD10840

Spacial S3HD Accessories

Description	Dimensions		Part No.
	H (mm)	W (mm)	
Mounting plates	343	200	NSYMM32
	448	300	NSYMM43
	548	400	NSYMM54
	653	400	NSYMM64
	658	600	NSYMM66
	753	500	NSYMM75
	858	600	NSYMM86
	862	800	NSYMM88
	1062	600	NSYMM106
	1062	800	NSYMM108
4 wall fixing lugs with fixings and gasket. Stainless steel AISI 304L Maximum load 150kg			NSYAEFPFXSC
Material: Zamack Anti-corrosive coating Delivered with 3mm double bar metal key Heavy duty padlock			NSYAEPLPADS3DHD
Includes a stainless steel anti-insect filter IP55 HD Metal Grille			NSYCAG223LFHD

Klippon® TB MH - Multi Hinge

Stainless steel enclosures for use in areas exposed to explosion hazards.

IP66/IP67

Weidmüller 

Technical Data

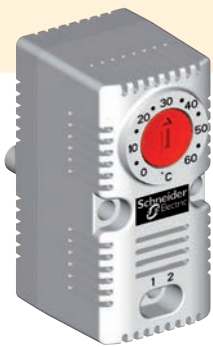
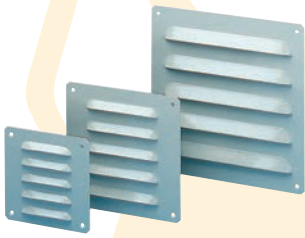
Material: Stainless steel 1.4404 (316L)
 Equipped with up to 4 gland plates
 Gasket is protected against compression
 Finish: International approvals

Stainless Steel

Ref		H (mm)	W (mm)	D (mm)	Enclosures With		
					2 Gland Plate Part No	4 Gland Plate Part No	Mounting Plate Part No.
TB10	KTB MH 221513 S4E*	229	152	133	1194570000	1194590000	1193810000
TB10A	KTB MH 262615 S4E*	260	260	150	1194620000	1194640000	1193820000
TB10A	KTB MH 262620 S4E*	260	260	200	1194670000	1194690000	1193820000
TB11	KTB MH 303015 S4E*	306	306	150	1194720000	1194740000	1193830000
TB11	KTB MH 303020 S4E*	306	306	200	1194770000	1194790000	1193830000
TB11A	KTB MH 352615 S4E*	350	260	150	1194820000	1194840000	1193840000
TB11A	KTB MH 352620 S4E*	350	260	200	1194870000	1194890000	1193840000
	KTB MH 403015 S4E*	400	300	150	1194920000	1194940000	1193850000
	KTB MH 403020 S4E*	400	300	200	1194970000	1194990000	1193850000
TB12	KTB MH 453815 S4E*	458	382	150	1195020000	1195040000	1193860000
TB12	KTB MH 453820 S4E*	458	382	200	1195070000	1195090000	1193860000
TB12A	KTB MH 484815 S4E*	480	480	150	1195120000	1195140000	1193870000
TB12A	KTB MH 484820 S4E*	480	480	200	1195170000	1195190000	1193870000
TB12B	KTB MH 553515 S4E*	550	350	150	1195220000	1195240000	1193880000
TB12B	KTB MH 553520 S4E*	550	350	200	1195270000	1195290000	1193880000
TB12D	KTB MH 624515 S4E*	620	450	150	1195320000	1195340000	1193890000
TB12D	KTB MH 624520 S4E*	620	450	200	1195370000	1195390000	1193890000
TB13	KTB MH 765015 S4E*	762	508	150	1195420000	1195440000	1193900000
TB13	KTB MH 765020 S4E*	762	508	200	1195470000	1195490000	1193900000
TB14	KTB MH 916115 S4E*	914	610	150	1195520000	1195540000	1193910000
TB14	KTB MH 916120 S4E*	914	610	200	1195570000	1195590000	1193910000
	KTB MH 987420 S4E*	980	740	200	1195620000	1195640000	1193920000

Note : * = No. of gland plates i.e. 2 or 4 on table above





Climasys

Many risks are incurred by not having a suitable thermal solution, which can affect the service life of the components and the performance of the facilities to the extent of causing a halt in production. The Climasys range provides a solution for your every thermal management need for all environments.

Metal Outlet Grille IP23

Cut-Out Dimensions		External Dimensions		Part No.
H (mm)	W (mm)	H (mm)	W (mm)	
104	95	120	120	NSYCAG104X95LM
130	110	160	160	NSYCAG130X110LM
170	190	220	220	NSYCAG170X190LM

Outlet Grille with Filter IP54

Cut-Out Dimensions		External Dimensions			Material	Part No.
H (mm)	W (mm)	H (mm)	W (mm)	D (mm)		
125	125	170	150	15	Injected thermoplastic (ASA PC) RAL 7035	NSYCAG125LPPF
223	223	268	248	18		NSYCAG223LPPF
92	92	137	117	13		NSYCAG92LPPF
291	291	336	316	18		NSYCAG291LPPF

Thermostats

Type	Setting Range	Controls	Part No.
Thermostat - NC Heat - Red		Control a resistance heater or an alarm	NSYCCOTHC
Thermostat - NO Vent - Blue	0 to 60°C	Control a fan or an alarm	NSYCCOTH0
Double thermostat - NC Heat & NO Vent		Control a resistance heater and a fan	NSYCCOTHD

Fan with Filter IP54 - RAL 7035 Grey

Flow Rate (Voltage)	Cut-Out Dimensions		External Dimensions			Part No.
	H (mm)	W (mm)	H (mm)	W (mm)	D (mm)	
38m³/h (115V)	92	92	137	117	49	NSYCVF38M115PF
38m³/h (230V)	92	92	137	117	49	NSYCVF38M230PF
85m³/h (115V)	125	125	170	150	62	NSYCVF85M115PF
85m³/h (230V)	125	125	170	150	62	NSYCVF85M230PF
165m³/h (230V)	223	223	268	248	104	NSYCVF165M230PF
300m³/h (115V)	223	223	268	248	116	NSYCVF300M115PF
300m³/h (230V)	223	223	268	248	116	NSYCVF300M230PF
560m³/h (230V)	291	291	336	316	161	NSYCVF560M230PF
850m³/h (230V)	291	291	336	316	161	NSYCVF850M230PF

24V DC available on request.

Spacial CRS - Ultra Thin Resistance Heaters

Ultra thin resistance heaters have been designed to resolve condensation problems in the most complex installations. Is your enclosure short of space? Does your mounting plate make it impossible to install a conventional resistor? Do you not want to take out the equipment? Discover the benefits of this new offer and its numerous mounting solutions.

Technical Data

Material: Silicon reinforced with fibreglass
 Colour: Red (heaters), black (wires)
 Certifications: VDE,LR
 Supply: 6 self-adhesive velcro pads, 6 plastic fixings, 4 telequick nuts, 4 clip-on nuts, fixing hardware

Spacial S3HD Wall Mounting Enclosures

Power (W)	Voltage (V)	Dimensions			Part No.
		H (mm)	W (mm)	D (mm)	
10	120	130	250	1.6	NSYCRS 10W 120V
	240	130	250	1.6	NSYCRS 10W 240V
25	120	130	250	1.6	NSYCRS 25W 120V
	240	130	250	1.6	NSYCRS 25W 240V
50	120	200	320	1.6	NSYCRS 50W 120V
	240	200	320	1.6	NSYCRS 50W 240V
100	120	280	450	1.6	NSYCRS 100W 120V
	240	280	450	1.6	NSYCRS 100W 240V
200	120	400	650	1.6	NSYCRS 200W 120V
	240	400	650	1.6	NSYCRS 200W 240V

ClimaSys CU

Cooling units for harsh environments, where ambient temperatures can reach up to 55°C. The unit's integrated alarm system will signal you in the event of any operational anomaly.

IP55



SLIM Models		UL Steel	UL Stainless Steel
Cooling Power L35-L35 W (Btu/h)	Voltage	Part No.	Part No.
1100 (3753)	230V	NSYCUS1K1UL	NSYCUSX1K1UL
1100 (3753)	400V	NSYCUS1K12P4UL	NSYCUSX1K12P4UL
1500 (5118)	230V	NSYCUS1K5UL	NSYCUSX1K5UL
1500 (5118)	400V	NSYCUS1K52P4UL	NSYCUSX1K52P4UL
2000 (6824)	230V	NSYCUS2KUL	NSYCUSX2KUL
2000 (6824)	400V	NSYCUS2K3P460UL	NSYCUSX2K3P4UL
2500 (8530)	230V	NSYCUS2K5UL	NSYCUSX2K5UL
2500 (8530)	400V	NSYCUS2K53P4UL	NSYCUSX2K53P4UL
3200 (10919)	230V	NSYCUS3K2UL	NSYCUSX3K2UL
3200 (10919)	400V	NSYCUS3K23P4UL	NSYCUSX3K23P4UL



ClimaSys CR Insulated Resistance Heaters

Insulated Resistance Heaters - 2 Poles		
Power (W)	Voltage	Part No.
10	110-250V AC	NSYCR10WU2C
10	12-24V DC	NSYCR10WU1C
20	110-250V AC	NSYCR20WU2C
20	12-24V DC	NSYCR20WU1C
Insulated Resistance Heaters - 4 Poles		
55	110-250V AC	NSYCR50WU2C
55	12-24V DC	NSYCR50WU1C
55	270-420V AC	NSYCR50WU3C
100	110-250V AC	NSYCR100WU2C
100	12-24V DC	NSYCR100WU1C
100	270-420V AC	NSYCR100WU3C
147	110-250V AC	NSYCR150WU2C
147	12-24V DC	NSYCR150WU1C
Insulated Resistance Heater with Fan		
177	230V AC	NSYCR170W230VVC
Thermofans		
400/550	120V AC	NSYCRP1W120VTVC
400/550	230V AC	NSYCRP1W230VTVC

ClimaSys CR Aluminium Resistance Heaters

Aluminium Resistance Heaters - Power Cord		
Power (W)	Voltage	Part No.
10	12-24V DC	NSYCR10WU1
10	110-250V AC	NSYCR10WU2
20	12-24V DC	NSYCR20WU1
20	110-250V AC	NSYCR20WU2
Aluminium Resistance Heaters - Terminal Block		
20	270-420V AC	NSYCR20WU3
55	12-24V DC	NSYCR55WU1
55	110-250V AC	NSYCR55WU2
55	270-420V AC	NSYCR55WU3
90	12-24V DC	NSYCR100WU1
90	110-250V AC	NSYCR100WU2
90	270-420V AC	NSYCR100WU3
150	12-24V DC	NSYCR150WU1
150	110-250V AC	NSYCR150WU2
150	270-420V AC	NSYCR150WU3



Fan & Filter Units

IP43. Can be upgraded by using sealing frames and fine filter mats.

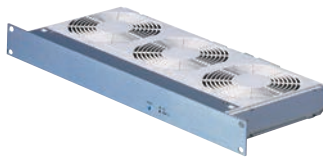
SK Series			
Unhindered Air Flow (m3/hr)	Cut-Out Dims (mm)	Voltage	Part No.
20	92 x 92	24V DC	3237.124
		115V AC	3237.110
		230V AC	3237.100
55	124 x 124	24V DC	3238.124
		115V AC	3238.110
		230V AC	3238.100
105	177 x 177	24V DC	3239.124
		115V AC	3239.110
		230V AC	3239.100
180	224 x 224	24V DC	3240.124
		115V AC	3240.110
		230V AC	3240.100
230	224 x 224	24V DC	3241.124
		115V AC	3241.110
		230V AC	3241.100
550	292 x 292	115V AC	3243.110
		230V AC	3243.100
		115V AC	3244.110
700	292 x 292	115V AC	3244.110
		230V AC	3244.100

DC versions also available.

Outlet Filters	
Cut-Out Dims (mm)	Part No.
92 x 92	3237.200
124 x 124	3238.200
177 x 177	3239.200
224 x 224	3240.200
292 x 292	3243.200

Spare Filter Mats (Packs of 5)		
For	Type	Part No.
3237....	Standard	3321.700
3238....	Standard	3322.700
3239....	Standard	3171.100
	Fine	3181.100
3240..../3241....	Standard	3172.100
	Fine	3182.100
3243..../3244....	Standard	3173.100
	Fine	3183.100

Rack Mounted Fans		
Unhindered Air Flow (m3/hr)	Voltage	Part No.
320	230V AC	3340.230
	115-230V AC	3342.500
480	24V DC	3342.500
	230V AC	3342.230



Cooling Units

Blue e Cooling Units			
Mounting	Total Cooling Output (W)	Voltage	Part No.
Side	360	230V	3302.100
	550	230V	3303.500
	850	230V	3361.500
	1100	230V	3304.500
	1600	230V	3305.500
	2200	400V	3328.540
Roof	550	230V	3382.500
	770	230V	3359.500
	1000	230V	3383.500
	1500	230V	3384.500
	2000	400V	3385.540

Blue e+ Cooling Units			
Mounting	Total Cooling Output (W)	Voltage	Part No.
Side	1600	110V - 240V	3185.830
	2000	1~50Hz / 60Hz 380V - 48 V	3186.930
	2600	3~50Hz / 60Hz	3187.930
	4200	380V - 480V	3188.940
	5800	3~50Hz / 60Hz	3189.940

Air-Air Heat Exchangers			
Specific Thermal Output W/k	Voltage	Part No.	
17.5	230V	3126.100	
30.0	230V	3127.100	
45.0	230V	3128.100	
60.0	230V	3129.100	
90.0	230V	3130.100	

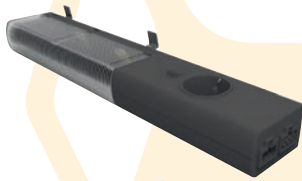
Air-Water Heat Exchangers			
Useful Cooling Output Watts	Voltage	Part No.	
1000	230V	3364.100	
3000	230V	3374.100	

Heaters and Controls

Heaters			
Continuous Thermal Output Watts	Voltage	Part No.	
10	110-240V AC	3105.310	
20		3105.320	
30		3105.330	
50		3105.340	
75		3105.350	
100		3105.360	
150		3105.370	

Controls			
Type	Volts	Part No.	
Thermostat	24-230V AC 24-60V DC	3110.000	
Hygrostat	24-230V AC/DC	3118.000	





Lighting & Power Sockets

Multi-Fixing 10W LED Lamps - 640 Lumens

Type	Voltage	Socket	Lamp		Cables	
			Part No.	Standard	Power (3m)	Interconnection (1.5m)
With socket	230V AC	Schuko	NSYLAMLDS	IEC	NSYLAM3M	NSYLAM1M
With socket	230V AC	UTE	NSYLAMLDF	IEC	NSYLAM3M	NSYLAM1M
With socket	230V AC	British	NSYLAMLDB	IEC	NSYLAM3M	NSYLAM1M
With socket	230V AC	USA	NSYLAMLDU	UL	NSYLAM3MUL	NSYLAM1MUL
Without socket	230V AC	-	NSYLAMLD	IEC	NSYLAM3M	NSYLAM1M
				UL	NSYLAM3MUL	NSYLAM1MUL
Without socket/with Presence detection	230V AC	-	NSYLAMLDD	IEC	NSYLAM3M	NSYLAM1M
				UL	NSYLAM3MUL	NSYLAM1MUL
Without socket	48V DC	-	NSYLAMLDVDC	IEC	NSYLAM3MDC	NSYLAM1MDC
				UL	NSYLAM3MDCUL	NSYLAM1MDCUL

Cost-Effective LED Lamps

Dimensions			Power	Lumen Output	Voltage	Frequency	Part No.
(mm)	(in)						
311 x 30.5 x 22	12.20 x 1.20 x 0.88		5W	500lm	120-230V AC	50-60Hz	NSYLAMT5LD1
560 x 30.5 x 22	22.05 x 1.20 x 0.88		10W	1100lm	120-230V AC	50-60Hz	NSYLAMT5LD2
310 x 30.5 x 22	12.20 x 1.20 x 0.87		5W	470lm	24-48V DC	-	NSYLAMT5LD1VDC

Portable LED lamp

Type	Power	Lumen Output	Voltage	Part No.
With switch	10W	1100lm	230V AC	NSYLAMPORLTD

Door Accessories - Floor-Standing Only

Metal Document Pocket

Enclosure Width (mm)	Part No.
600	NSYSDP6M
800	NSYSDP8M

Folding Support Tray

Spacial Width (mm)	Part No.
500	NSYSDT5
600	NSYSDT6
800	NSYSDT8

Door Cross Rails

Nominal Width (mm)	Part No.
400	NSYSDCR4
500	NSYSDCR5
600	NSYSDCR6
800	NSYSDCR8
1000	NSYSDCR10

Door Switches

For Ranges	Part No.
SF - SFX	NSYDCM20
SM	NSYMDCM20
PLA	NSYSNLPLA

Door Retainer

Door Stop Model	For Enclosures	Limit	Part No.
Mechanical	Spacial SF	90° and 140°	NSYSFMDR
	Spacial SM	90°	NSYSMDR
Pneumatic	Spacial SF	120°	NSYSFNDR
	Spacial SM	90° and 140°	NSYSMNDR*

* Compatible with SF.

Door Accessories - Wall Mount Only

Door Retainers

Description	Part No.
Steel door retainer for Spacial wall-mounting steel enclosure	NSYAEDRSCST
Polyamide door retainer for Spacial wall-mounting steel enclosure	NSYAEDRS3DPA6

Door Switch

For Ranges	Part No.
S3D, S3X	NSYINLCRN

Plastic Document Pockets - Floor Standing & Wall Mounted

Document Format	Part No.
A5	NSYDPA5
A4	NSYDPA4
A4	NSYDPA44 ⁽¹⁾
A3	NSYDPA3

⁽¹⁾ Not compatible with 19" chassis or modular enclosure.

For screening off individual enclosures in a suite

Solid Divider Panels

Enclosure (mm)		Part No.
Height	Width	
1800	400	8609.840
1800	500	8609.850
1800	600	8609.860
2000	400	8609.040
2000	500	8609.050
2000	600	8609.060
2000	800	8609.080
2200	600	8609.260

LED Lighting System

Type	Power Consumption	Lumen Output	Installation Length (mm)	Part No.
LED with socket & motion detector	13W	1200lm	437	2500.310
LED with motion detector				2500.300
LED with socket				2500.210
LED without socket	11W	900lm		2500.200
LED without socket. 24V				2500.220
LED without socket	7W	600lm	337	2500.110
	5W	400lm	262	2500.100
Door operated switch	For simple, time-saving connection of the LED system light			2500.460
Door operated switch UL Version				2500.470

For secure cable routing from enclosure or mounting plate to door.

Cable Conduit & Conduit Holder

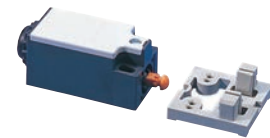
Description	Diameter (mm)	Packs of	Part No.
Conduit	16	25m	2595.000
	29	25m	2589.000
	36	25m	2596.000
	48	25m	2590.000
Conduit Holder	16	20	2593.000
	29	20	2591.000
	36	20	2594.000
	48	20	2592.000

Document Holders

Description	Door Width (mm)	Part No.
Wiring plan lecturn	400	4120.000
	500	4114.000
	600	4115.000
	800	4116.000
	1000	4118.000
Wiring plan pocket - sheet steel	A5 Landscape	2515.000
	A4 Portrait	2514.000
	A3 Landscape	2513.000
	Disk box	20

Ancillaries

Description	Pack Qty.	Part No.
Lifting brackets	4	4540.000
Eye bolts	4	4568.000
Levelling feet	4	4612.000
Door stay	1	8618.400



2

INDUSTRIAL CONTROL



Contents

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Motor Circuit Breakers

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Mini Contactors - B6 and B7 Series

Single Contactors

Ratings			Coil	No. Of Main Poles	Aux Contacts		Part No.	Insert Coil Voltage
AC1 Amps	AC3 Amps	@ 415V kW			NO	NC		
20	8.5	4	AC	3	1	-	B6-30-10	<input type="checkbox"/>
					-	1	B6-30-01	<input type="checkbox"/>
			DC	3	1	-	BC6-30-10	<input type="checkbox"/>
					-	1	BC6-30-01	<input type="checkbox"/>
			AC	4	-	-	B6-40-00	<input type="checkbox"/>
					-	-	BC6-40-00	<input type="checkbox"/>
	11.5	5.5	AC	3	1	-	B7-30-10	<input type="checkbox"/>
					-	1	B7-30-01	<input type="checkbox"/>
			DC	3	1	-	BC7-30-10	<input type="checkbox"/>
					-	1	BC7-30-01	<input type="checkbox"/>
			AC	4	-	-	B7-40-00	<input type="checkbox"/>
					-	-	BC7-40-00	<input type="checkbox"/>

Accessories

Auxiliary Contact Blocks

For	Position	Aux Contacts		Part No.
		NO	NC	
B6.30.10/B7.30.10	Side	1	1	CA6-11M
B6.30.01/B7.30.01	Side	1	1	CA6-11N
B6.40.00/B7.40.00	Side	1	1	CA6-11E
B6.30.10/B7.30.10	Top	1	1	CAF6-11M
		-	2	CAF6-02M
		1	1	CAF6-11N
B6.30.01/B7.30.01	Top	2	-	CAF6-20N
		-	2	CAF6-02N
		1	1	CAF6-11E
B6.40.00/B7.40.00	Top	2	-	CAF6-20E
		-	2	CAF6-02E

Thermal Overload Relays

T16 Series

For	Setting Range A	Part No.
B6 and B7 Mini Contactors	0.10 - 0.13	T16-0.13
	0.13 - 0.17	T16-0.17
	0.17 - 0.23	T16-0.23
	0.23 - 0.31	T16-0.31
	0.31 - 0.41	T16-0.41
	0.41 - 0.55	T16-0.55
	0.55 - 0.74	T16-0.74
	0.74 - 1.0	T16-1.0
	1.0 - 1.3	T16-1.3
	1.3 - 1.7	T16-1.7
	1.7 - 2.3	T16-2.3
	2.3 - 3.1	T16-3.1
	3.1 - 4.2	T16-4.2
	4.2 - 5.7	T16-5.7
	5.7 - 7.6	T16-7.6
	7.6 - 10.0	T16-10.0
10.0 - 13.0	T16-13.0	



Part No. Completion
When ordering complete the Part No. by adding the following:-

Coil Voltage	50Hz	DC
24V	024V	024V
48V	048V	048V
110 - 127V	110V	110V
220 - 240V	240V	240V
380 - 415V	415V	



Unique AC/DC control voltage supply mode will accept AC or DC coil control voltage



Contactors - AF Series

3 Pole						
AC1 Amps	Ratings			Aux Contacts		Part No.
	AC3 Amps	@ 415V kW	NO	NC	Range	
25	9	4	1	-	24-60V 50/60HZ 20-60V DC	AF09-30-10-11
					48-130V 50/60HZ-DC	AF09-30-10-12
					100-250V50/60HZ-DC	AF09-30-10-13
					250-500V50/60HZ-DC	AF09-30-10-14
					12-20V DC	AF09Z-30-10-20
					24-60V 50/60HZ 20-60V DC	AF09Z-30-10-21
			-	1	24-60V 50/60HZ 20-60V DC	AF09-30-01-11
					48-130V 50/60HZ-DC	AF09-30-01-12
					100-250V 50/60HZ-DC	AF09-30-01-13
					250-500V 50/60HZ-DC	AF09-30-01-14
					12-20V DC	AF09Z-30-01-20
					20-60V DC 24-60V 50/60HZ	AF09Z-30-01-21
27	12	5.5	-	-	24-60V 50/60HZ 20-60V DC	AF09-30-00-11
					48-130V 50/60HZ-DC	AF09-22-00-12
					100-250V 50/60HZ-DC	AF09-22-00-13
					250-500V 50/60HZ-DC	AF09-22-00-14
					24-60V 50/60HZ 20-60V DC	AF09Z-22-00-21
					24-60V 50/60HZ 20-60V DC	AF09-40-00-11
			1	-	48-130V 50/60HZ-DC	AF09-40-00-12
					100-250V 50/60HZ-DC	AF09-40-00-13
					250-500V 50/60HZ-DC	AF09-40-00-14
					12-20V DC	AF09Z-40-00-20
					24-60V 50/60HZ 20-60V DC	AF09Z-40-00-21
					24-60V 50/60HZ 20-60V DC	AF12-30-10-11
30	17	7.5	-	1	48-130V 50/60HZ-DC	AF12-30-10-12
					100-250V 50/60HZ-DC	AF12-30-10-13
					250-500V 50/60HZ-DC	AF12-30-10-14
					12-20V DC	AF12Z-30-10-20
					24-60V 50/60HZ 20-60V DC	AF12Z-30-10-21
					24-60V 50/60HZ 20-60V DC	AF12-30-01-11
			1	-	48-130V 50/60HZ-DC	AF12-30-01-12
					100-250V 50/60HZ-DC	AF12-30-01-13
					250-500V 50/60HZ-DC	AF12-30-01-14
					12-20V DC	AF12Z-30-01-20
					24-60V 50/60HZ 20-60V DC	AF12Z-30-01-21
					24-60V 50/60HZ 20-60V DC	AF16-30-10-11
30	17	7.5	-	1	48-130V 50/60HZ-DC	AF16-30-10-12
					100-250V 50/60HZ-DC	AF16-30-10-13
					250-500V 50/60HZ-DC	AF16-30-10-14
					12-20V DC	AF16Z-30-10-20
					24-60V 50/60HZ 20-60V DC	AF16Z-30-10-21
					24-60V 50/60HZ 20-60V DC	AF16-30-01-11
			-	1	48-130V 50/60HZ-DC	AF16-30-01-12
					100-250V 50/60HZ-DC	AF16-30-01-13
					250-500V 50/60HZ-DC	AF16-30-01-14
					12-20V DC	AF16Z-30-01-20
					24-60V 50/60HZ 20-60V DC	AF16Z-30-01-21
					24-60V 50/60HZ 20-60V DC	AF16-22-00-11
45	26	11	-	-	48-130V 50/60HZ-DC	AF16-22-00-12
					100-250V 50/60HZ-DC	AF16-22-00-13
					250-500V 50/60HZ-DC	AF16-22-00-14
					12-20V DC	AF16Z-22-00-20
					24-60V 50/60HZ 20-60V DC	AF16Z-22-00-21
					24-60V 50/60HZ 20-60V DC	AF16-40-00-11
			-	-	48-130V50/60HZ-DC	AF16-40-00-12
					100-250V 50/60HZ-DC	AF16-40-00-13
					250-500V 50/60HZ-DC	AF16-40-00-14
					12-20V DC	AF16Z-40-00-20
					24-60V 50/60HZ 20-60V DC	AF16Z-40-00-21
					24-60V 50/60HZ 20-60V DC	AF26-30-00-11
55	32	15	-	-	48-130V 50/60HZ-DC	AF26-30-00-12
					100-250V 50/60HZ-DC	AF26-30-00-13
					250-500V 50/60HZ-DC	AF26-30-00-14
					12-20V DC	AF26Z-30-00-20
					24-60V 50/60HZ 20-60V DC	AF26Z-30-00-21
					24-60V 50/60HZ 20-60V DC	AF30-30-00-11
			-	-	48-130V50/60HZ-DC	AF30-30-00-12
					100-250V 50/60HZ-DC	AF30-30-00-13
					250-500V 50/60HZ-DC	AF30-30-00-14
					12-20V DC	AF30Z-30-00-20
					24-60V 50/60HZ 20-60V DC	AF30Z-30-00-21
					24-60V 50/60HZ 20-60V DC	AF38-30-00-11
60	35	18.5	-	-	48-130V 50/60HZ-DC	AF38-30-00-12
					100-250V 50/60HZ-DC	AF38-30-00-13
					250-500V 50/60HZ-DC	AF38-30-00-14
					12-20V DC	AF38Z-30-00-20
					24-60V 50/60HZ 20-60V DC	AF38Z-30-00-21
					24-60V 50/60HZ 20-60V DC	AF38Z-30-00-21

Part No's with 'z' in number have low consumption coils

AF09...AF38Z Accessories

Auxiliary Contact Blocks

For	Position	Aux Contacts		Part No.
		NO	NC	
AF09...AF38	Front	1	-	CA4-10
		-	1	CA4-01
	Front (No leading & NC lagging)	1	-	CC4-10
		0	1	CC4-01
AF09...AF16-30-10	Side	1	1	CAL4-11
		2	2	CA4-22M
	Front	3	1	CA4-31M
		1	3	CA4-13M
		0	4	CA4-04M
		2	2	CA4-22E
AF26...AF38-30-00	Front	3	1	CA4-31E
		4	0	CA4-40E
		0	4	CA4-04E

Auxiliary Contact Blocks (with A1/A2 Terminal Blocks)

For	Position	Aux Contacts		Part No.
		NO	NC	
AF09...AF16-30-10	Front	1	1	CAT4-11E
AF26...AF38-30-00	Front	1	1	CAT4-11M

Interlocks

Type	Part No.
Mechanical & electrical interlock unit	VEM4
Mechanical interlock unit	VM4

Connecting Links

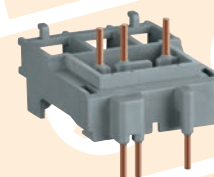
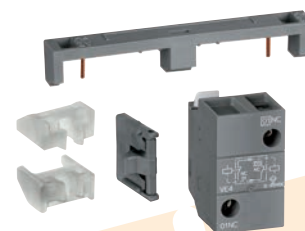
Type	Part No.
Connecting link	BEA16-4
	BEA38-4
Connection kit for PSR24-30 and MS132	PSR30-MS132
Connection set for reversing starter	BER16-4
	BER38-4
Connection set for Star-Delta starter	BEY16-4
	BEY38-4

Contactors Relays - NF Series

Contactors Relays

NO	NC	Range	Part No.
2	2	24-60V 50/60HZ 20-60V DC	NF22E-11
		48-130V 50/60HZ-DC	NF22E-12
		100-250V 50/60HZ-DC	NF22E-13
3	1	24-60V 50/60HZ 20-60V DC	NF22E-21
		24-60V 50/60HZ 20-60V DC	NF31E-11
		48-130V 50/60HZ-DC	NF31E-12
		100-250V 50/60HZ-DC	NF31E-13
4	-	24-60V 50/60HZ 20-60V DC	NFZ31E-21
		24-60V 50/60HZ 20-60V DC	NF40E-11
		48-130V 50/60HZ-DC	NF40E-12
		100-250V 50/60HZ-DC	NF40E-13
		24-60V 50/60HZ 20-60V DC	NFZ40E-21

Part No's with 'z' in number have low consumption coils





Electronic Overload Relays - EF Series

For	Setting Range A	Part No.
AF09...AF38Z	0.10...0.32	EF19-0.32
	0.30...1.00	EF19-1.0
	0.80...2.70	EF19-2.7
	1.90...6.30	EF19-6.3
	5.70...18.9	EF19-18.9
	9.00...30.0	EF45-30
	15.0...45.0	EF45-45

Thermal Overload Relays - TF Series

For	Setting Range A	Part No.
AF09...AF38Z	0.10...0.13	TF42-0.13
	0.13...0.17	TF42-0.17
	0.17...0.23	TF42-0.23
	0.23...0.31	TF42-0.31
	0.31...0.41	TF42-0.41
	0.41...0.55	TF42-0.55
	0.55...0.74	TF42-0.74
	0.74...1.00	TF42-1.0
	1.00...1.30	TF42-1.3
	1.30...1.70	TF42-1.7
	1.70...2.30	TF42-2.3
	2.30...3.10	TF42-3.1
	3.10...4.20	TF42-4.2
	4.20...5.70	TF42-5.7
	5.70...7.60	TF42-7.6
	7.60...10.0	TF42-10
	10.0...13.0	TF42-13
	13.0...16.0	TF42-16
	16.0...20.0	TF42-20
	20.0...24.0	TF42-24
	24.0...29.0	TF42-29
	29.0...35.0	TF42-35
	35.0...38.0	TF42-38

Contactors - DILM Series

3 Pole			Ratings		Aux Contacts		Part No.	Insert Coil Voltage
AC1 Amps	AC3 Amps	@ 415V kW	NO	NC				
22	7	3	-	-	DILM7-10	<input type="checkbox"/>		
			-	1	DILM7-01	<input type="checkbox"/>		
	9	4	-	-	DILM9-10	<input type="checkbox"/>		
			-	1	DILM9-01	<input type="checkbox"/>		
	12	5.5	-	-	DILM12-10	<input type="checkbox"/>		
			-	1	DILM12-01	<input type="checkbox"/>		
15	7.5	-	-	DILM15-10	<input type="checkbox"/>			
		-	1	DILM15-01	<input type="checkbox"/>			
40	18	7.5	-	-	DILM17-10	<input type="checkbox"/>		
			-	1	DILM17-01	<input type="checkbox"/>		
45	25	11	-	-	DILM25-10	<input type="checkbox"/>		
			-	1	DILM25-01	<input type="checkbox"/>		
	32	15	-	-	DILM32-10	<input type="checkbox"/>		
			-	1	DILM32-01	<input type="checkbox"/>		
60	38	18.5	-	-	DILM38-10	<input type="checkbox"/>		
			-	1	DILM38-01	<input type="checkbox"/>		
	40	18.5	-	-	DILM40	<input type="checkbox"/>		
80	22	-	-	DILM50	<input type="checkbox"/>			
98	30	-	-	DILM65	<input type="checkbox"/>			
72	37	-	-	DILM72	<input type="checkbox"/>			
110	37	-	-	DILM80	<input type="checkbox"/>			
130	45	-	-	DILM95	<input type="checkbox"/>			
160	55	-	-	DILM115	<input type="checkbox"/>			
190	75	-	-	DILM150	<input type="checkbox"/>			
225	90	-	-	DILM170	<input type="checkbox"/>			

Accessories

Auxiliary Contact Blocks		Aux Contacts		Part No.
For	Position	NO	NC	
DILM7...38 Series	Top	1	1	DILM32-XHI11
		-	2	DILM32-XHI02
		2	2	DILM32-XHI22
DILM40...170 Series	Top	1	1	DILM150-XHI11
		0	2	DILM150-XHI02
		2	-	DILM150-XHI20
		4	-	DILM150-XHI40
		3	1	DILM150-XHI31
		2	2	DILM150-XHI22
		1	3	DILM150-XHI13
DILM17...38 Series	Side	1	1	DILM32-XHI11-S
DILM40...170 Series	Side	1	1	DILM1000-XHI11-SI

Mechanical Interlock		Part No.
For		
DILM7...DILM15		DILM12-XMV
DILM17...DILM38		DILM32-XMV
DILM40...DILM72		DILM65-XMV
DILM80...DILM170		DILM150-XMV

Contactor Relays - DIL ER Series

DIL ER Series			Ratings		Aux Contacts		Part No.	Insert Coil Voltage
Thermal lth Amps	AC15 @	240V Amps	415V Amps	NO	NC			
10	6	6	3	4	-	DILER-40	<input type="checkbox"/>	
				3	1	DILER-31	<input type="checkbox"/>	
				2	2	DILER-22	<input type="checkbox"/>	

Accessories

Auxiliary Contact Blocks		Aux Contacts		Part No.
For	Position	NO	NC	
DIL ER	Top	-	2	02DILE
		1	1	11DILE
		2	-	20DILE
		-	4	04DILE
		1	3	13DILE
		2	2	22DILE
		3	1	31DILE
		4	-	40DILE



Part No. Completion
When ordering complete the Part No. by adding the following:-

AC Version up to DIL M95 :-

Coil Voltage	
24V 50Hz	24V50
110V 50Hz	110V50
230V 50Hz	RAC250
400V 50Hz	RAC500

AC Version from DIL M115:-

24V 50Hz	RAC24
110V 50Hz	RAC120
230V 50Hz	RAC240
400V 50Hz	RAC440

DC Version up to DIL M15 :-

24V DC	24VDC
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DC Version from DIL M17 :-

24V DC	RDC24
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Part No. Completion
When ordering complete the Part No. by adding the following:-

Mechanical Latch Blocks

50Hz	
24V	24V50HZ
100V/120V	110V50HZ/120V50HZ
220V/240V	230V50HZ
400V	400V50HZ



Thermal Overload Relays

ZB Series

For	Setting Range A	Part No.	
DILM7...DILM15	0.1 - 0.16	ZB12-0.16	
	0.16 - 0.24	ZB12-0.24	
	0.24 - 0.4	ZB12-0.4	
	0.4 - 0.6	ZB12-0.6	
	0.6 - 1	ZB12-1	
	1 - 16	ZB12-1.6	
	1.6 - 2.4	ZB12-2.4	
	2.4 - 4	ZB12-4	
	4 - 6	ZB12-6	
	6 - 10	ZB12-10	
	9 - 12	ZB12-12	
	12 - 16	ZB12-16	
DILM17...DILM38	0.1 - 0.16	ZB32-0.16	
	0.16 - 0.24	ZB32-0.24	
	0.24 - 0.4	ZB32-0.4	
	0.4 - 0.6	ZB32-0.6	
	0.6 - 1	ZB32-1	
	1 - 16	ZB32-1.6	
	1.6 - 2.4	ZB32-2.4	
	2.4 - 4	ZB32-4	
	4 - 6	ZB32-6	
	6 - 10	ZB32-10	
	10 - 16	ZB32-16	
	16 - 24	ZB32-24	
DILM40...DILM72	24 - 32	ZB32-32	
	32 - 38	ZB32-38	
	6 - 10	ZB65-10	
	10 - 16	ZB65-16	
	16 - 24	ZB65-24	
	24 - 40	ZB65-40	
	40 - 57	ZB65-57	
	50 - 65	ZB65-65	
	65 - 75	ZB65-75	
	DILM80...DILM170	25 - 35	ZB150-35
		35 - 50	ZB150-50
		50 - 70	ZB150-70
70 - 100		ZB150-100	
95 - 125		ZB150-125	
120 - 150		ZB150-150	
145 - 175	ZB150-175		

TeSys K Series

Contactors & Reversing Contactors

Ratings			Coil	No. Of Main Poles	Aux Contacts		Part No.	Insert Coil Voltage
AC1 Amps	AC3 Amps	@ 415V kW			NO	NC		
20	6	2.2	AC	3	1	-	LC1-K0610	<input type="checkbox"/>
					-	1	LC1-K0601	<input type="checkbox"/>
	9	4	AC	3	1	-	LC1-K0910	<input type="checkbox"/>
					-	1	LC1-K0901	<input type="checkbox"/>
	12	5.5	AC	3	1	-	LC1-K1210	<input type="checkbox"/>
					-	1	LC1-K1201	<input type="checkbox"/>

NB. Prices shown are for 24V versions. Call your local branch for prices on higher voltage versions.

Accessories

Auxiliary Contact Blocks

For	Position	Aux Contacts		Part No.
		NO	NC	
LC1K	Front	2	-	LA1-KN20
		-	2	LA1-KN02
		1	1	LA1-KN11
		4	-	LA1-KN40
		3	1	LA1-KN31
		2	2	LA1-KN22
		1	3	LA1-KN13
		-	4	LA1-KN04

Electronic Timers

For	Type	Control Voltage	Time Range	CO	Part No.
20	Delay on	24V...48V AC/DC	0.1 - 30s	1	LA2-KT2E
		110V...240V AC		1	LA2-KT2U

TeSys LR2K Series

Thermal Overload Relays

For	Setting Range A	Part No.
LC1K	0.11 - 0.16	LR2 K0301
	0.16 - 0.23	LR2 K0302
	0.23 - 0.36	LR2 K0303
	0.36 - 0.54	LR2 K0304
	0.54 - 0.8	LR2 K0305
	0.8 - 1.2	LR2 K0306
	1.2 - 1.8	LR2 K0307
	1.8 - 2.6	LR2 K0308
	2.6 - 3.7	LR2 K0310
	3.7 - 5.5	LR2 K0312
	5.5 - 8	LR2 K0314
	8 - 11.5	LR2 K0316
10 - 14	LR2 K0321	
12 - 16	LR2 K0322	

Accessories

Description	Part No.
Separate mounting base	LA7-K0064



Part No. Completion
When ordering complete the Part No. by adding the following:-

LC1-K0610...LC1-K1201

50Hz/60Hz

24 B7

48 E7

110 F7

240 U7

415 N7



Contactors - TeSys D Series

Available in AC and DC control voltages

Features

- Alternative Ratings <200 Amps
- Spring terminal connections are available
- Contactor c/w Safety Cover
- Separation of Control & Power Circuits
- 1NO + 1NC Auxiliary Contact Built-in
- Same design upto 38 Amps AC3

3 Pole Versions

AC1 Amps	Ratings		Aux Contacts		Part No.	Insert Coil Voltage AC or DC
	AC3 Amps	@ 415V kW	NO	NC		
	25	9 12	4 5.5	1		
32	18	9	1	1	LC1D18	<input type="checkbox"/>
40	25	11	1	1	LC1D25	<input type="checkbox"/>
50	32	15	1	1	LC1D32	<input type="checkbox"/>
	38	18.5	1	1	LC1D38	<input type="checkbox"/>
(Part No. completion break)						
60	40	22	1	1	LC1D40A	<input type="checkbox"/>
80	50	25	1	1	LC1D50A	<input type="checkbox"/>
	65	30	1	1	LC1D65A	<input type="checkbox"/>
125	80	45	1	1	LC1D80	<input type="checkbox"/>
	95		1	1	LC1D95	<input type="checkbox"/>
200	115	59	1	1	LC1D115	<input type="checkbox"/>
	150	80	1	1	LC1D150	<input type="checkbox"/>

4 Pole Versions

AC1 Amps	Ratings		Aux Contacts		Part No.	Insert Coil Voltage AC or DC
	Pole Configuration		NO	NC		
	20	4		1		
25	2	2	2	2	LC1D098	<input type="checkbox"/>
	4		1	1	LC1DT25	<input type="checkbox"/>
32	2	2	1	1	LC1D128	<input type="checkbox"/>
	4		1	1	LC1DT32	<input type="checkbox"/>
40	2	2	1	1	LC1D188	<input type="checkbox"/>
	4		1	1	LC1DT40	<input type="checkbox"/>
	2	2	1	1	LC1D258	<input type="checkbox"/>

Accessories

Auxiliary Contact Blocks

For	Position	Aux Contacts		Part No.
		NO	NC	
LC1D09...LC1D150	Front	1	1	LADN11
		2	-	LADN20
		-	2	LADN02
		2	2	LADN22
		1	3	LADN13
		4	-	LADN40
	Side (LC1D09...LC1D38 1 only - LHS)	-	4	LADN04
		3	1	LADN31
		1	1	LAD8N11
		2	-	LAD8N20

NB. Contactors with BL and EL coils can only accept 1 off 2 contact front mounted auxiliary.

Part No. Completion
When ordering complete the Part No. by adding the following:-

LC1D09...LC1D38

Voltage	AC	2.4W DC	5.5W DC
24	B7	BL	BD
48	E7	EL	ED
110	F7		FD
220	M7		MD
230	P7		
240	U7		UD
380	Q7		
400	V7		
415	N7		

LC1D40...LC1D150

Voltage	AC	2.4W DC
24	B7	BD
48	E7	ED
110	F7	FD
220	M7	MD
230	P7	
240	U7	
380	Q7	
400	V7	
415	N7	

Interlocks

For	Type	Part No.
LC1D09...LC1D38	Interlock	LAD9V2
	Interlock + power connections + control	LAD9R1V
	Interlock + power connections	LAD9R1
LC1D40A...LC1D65A	Interlock without integral electrical interlocking	LAD4CM
	Power connections	LA9D65A69
	Interlock (AC)	LA9D4002
LC1D80...LC1D95	Interlock (DC)	LA9D8002
	Interlock without integral electrical interlocking	LA9D50978
	Power connections	LA9D8069
	Interlock	LA9D11502
LC1D115...LC1D150	Interlock	LA9D11502
	Power connections	LA9D11569

Time Delay Auxiliary Contact Block

For	Type	Time Range	NO	NC	Part No.
LC1D09...LC1D150	Delay on	0.1 - 3s	1	1	LADT0
		0.1 - 30s	1	1	LADT2
		10 - 180s	1	1	LADT4
	Delay off	0.1 - 3s	1	1	LADR0
		0.1 - 30s	1	1	LADR2
		10 - 180s	1	1	LADR4

Star Delta Timers

For	Type	Time Range	Part No.
LC1D09...LC1D150	Delay on	0.1 - 30s	LADS2

Surge Suppression

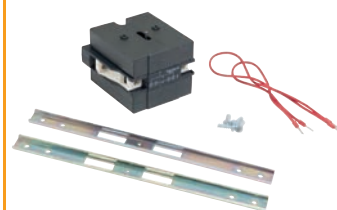
For	Type	Voltage	Part No.
LC1D09...LC1D38	AC	24 - 48V AC	LAD4RCE
		110 - 240V AC	LAD4RCU
		24 - 48V AC	LAD4RC3E
LC1D40A...LC1D65A (3P)	AC	50 - 127V AC	LAD4RC3G
		110 - 240V AC	LAD4RC3U
		24 - 48V DC	LAD4V3E
	DC	50 - 127V DC	LAD4V3G
		110 - 250V DC	LAD4V3U

Thermal Overload Relays TeSys Series

For	Setting Range A	Part No.
D09...D38	0.10 - 0.16	LRD01
	0.16 - 0.25	LRD02
	0.25 - 0.40	LRD03
	0.40 - 0.63	LRD04
	0.63 - 1	LRD05
	1 - 1.6	LRD06
	1.6 - 2.5	LRD07
	2.5 - 4	LRD08
	4 - 6	LRD10
	5.5 - 8	LRD12
	7 - 10	LRD14
	9 - 13	LRD16
	12 - 18	LRD21
	16 - 24	LRD22
	23 - 32	LRD32
	30 - 38	LRD35
	9 - 13	LRD313
	D40A...D65A	12 - 18
17 - 25		LRD325
23 - 32		LRD332
30 - 40		LRD340
37 - 50		LRD350
D50A and D65A	48 - 65	LRD365
	17 - 25	LRD3322
	23 - 32	LRD3353
	30 - 40	LRD3355
	37 - 50	LRD3357
D80...D95	48 - 65	LRD3359
	55 - 70	LRD3361
	63 - 80	LRD3363
	80 - 104	LRD3365
	80 - 104	LRD4365
D115...D150	95 - 120	LRD4367
	110 - 140	LRD4369
Independent mounting	80 - 104	LRD33656
	95 - 120	LRD33676
	110 - 140	LRD33696

Remote Mounting Block

For	Part No.
LRD01-LRD35	LAD7B106
LRD313-LRD365	LAD96560
LRD3322-LRD4369	LA7D3064



TeSys Overload Relays

- Class 10A tripping
- Relays with manual or automatic reset
- with Relay trip indicator
- For AC or DC
- Screw clamp terminals
- Protective cover for unauthorised adjustment



Contactors for Motor Control - TeSys F Range

3 Pole Without Coil

Ratings			
AC1 Amps	AC3 @415V Amps	kW	Part No.
275	185	100	LC1 F185
315	225	110	LC1 F225
350	265	140	LC1 F265
400	330	180	LC1 F330
500	400	220	LC1 F400
700	500	280	LC1 F500
1000	630	375	LC1 F630
1600	780	450	LC1 F780

Coils

For	Type	Part No.	Insert Coil Voltage
LC1 F185 & F225	AC	LX1 FG	<input type="checkbox"/>
	DC	LX4 FG	<input type="checkbox"/>
LC1 F265 & F330	AC	LX1 FH	<input type="checkbox"/>
	DC	LX4 FH	<input type="checkbox"/>
LC1 F400	AC	LX1 FJ	<input type="checkbox"/>
	DC	LX4 FJ	<input type="checkbox"/>
LC1 F500	AC	LX1 FK	<input type="checkbox"/>
	DC	LX4 FK	<input type="checkbox"/>
LC1 F630	AC	LX1 FL	<input type="checkbox"/>
	DC	LX4 FL	<input type="checkbox"/>
LC1 F780	AC	LX1 FX	<input type="checkbox"/>

Electronic Overload Relay

For	Setting Range A	Part No.
F185	30 - 50	LR9 F5357
	48 - 80	LR9 F5363
F185...F400	60 - 100	LR9 F5367
	90 - 150	LR9 F5369
F225...F500	132 - 220	LR9 F5371
	200 - 330	LR9 F7375
F400...F630	300 - 500	LR9 F7379
	380 - 630	LR9 F7381

Accessories

Auxiliary Contact Blocks

For	Position	No	NC	Part No.
LC1F185...LC1F780	Front	1	1	LADN11
		2	-	LADN20
		-	2	LADN02
		2	2	LADN22
		1	3	LADN13
		4	-	LADN40
		-	4	LADN04
		3	1	LADN31

Maximum of 2 per contactor

Pneumatic Timers

For	Type	Time Range	No	NC	Part No.
LC1F185...LC1F780	Delay on	0,1 - 3s	1	1	LADT0
		0,1 - 30s	1	1	LADT2
		10 - 180s	1	1	LADT4
	Delay off	0,1 - 3s	1	1	LADR0
		0,1 - 30s	1	1	LADR2
		10 - 180s	1	1	LADR4

Part No. Completion
When ordering complete the Part No. by adding the following:-

Coil Voltage	
24V AC/DC	024
48V AC/DC	048
110V AC/DC	110
240V AC	240
415V AC	415

Sirius Contactors for Switching Motors

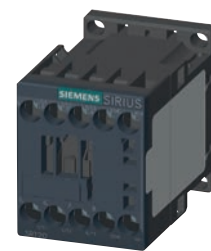
Contactors for Switching Motors					
Size	Rated Control Supply Voltage	AC3 400V	AC1 690V	Auxiliary Contacts	Part No. * 1 = NO Aux, 2 = NC Aux
S00 3kW	24V AC, 50/60Hz	7	18		3RT2015-1AB0*
	110V AC, 50/60Hz				3RT2015-1AF0*
	230V AC, 50/60Hz				3RT2015-1AP0*
S00 4kW	24V DC	9			3RT2015-1BB4*
	24V AC, 50/60Hz				3RT2016-1AB0*
	110V AC, 50/60Hz				3RT2016-1AF0*
S00 5.5kW	230V AC, 50/60Hz	12	22	1NO/1NC	3RT2016-1AP0*
	24V DC				3RT2016-1BB4*
	24V AC, 50/60Hz				3RT2017-1AB0*
S00 7.5kW	110V AC, 50/60Hz	16			3RT2017-1AF0*
	230V AC, 50/60Hz				3RT2017-1AP0*
	24V DC				3RT2017-1BB4*
S0 7.5kW	24V AC, 50Hz	17	40		3RT2018-1AB0*
	110V AC, 50Hz				3RT2018-1AF0*
	230V AC, 50Hz				3RT2018-1AP0*
S0 11kW	24V DC	25	40	1NO+1NC	3RT2018-1BB4*
	24V AC, 50Hz				3RT2025-1AB00
	110V AC, 50Hz				3RT2025-1AF00
S0 15kW	230V AC, 50Hz	32	50		3RT2025-1AP00
	24V DC				3RT2025-1BB40
	24V AC, 50Hz				3RT2026-1AB00
S0 18.5kW	110V AC, 50Hz	38			3RT2026-1AF00
	230V AC, 50Hz				3RT2026-1AP00
	24V DC				3RT2026-1BB40
S0 18.5kW	24V AC, 50Hz	38			3RT2027-1AB00
	110V AC, 50Hz				3RT2027-1AF00
	230V AC, 50Hz				3RT2027-1AP00
S0 18.5kW	24V DC	38			3RT2027-1BB40
	24V AC, 50Hz				3RT2028-1AB00
	110V AC, 50Hz				3RT2028-1AF00
S0 18.5kW	230V AC, 50Hz	38			3RT2028-1AP00
	24V DC				3RT2028-1BB40

Sirius Contactors for Switching Motors

Contactors for Switching Motors					
Size	Rated Control Supply Voltage	AC3 400V	AC1 690V	Auxiliary Contacts	Part No. * 1 = NO Aux, 2 = NC Aux
S2 18.5kW	110V AC, 50Hz	40	60		3RT2035-1AF00
	230V AC, 50Hz				3RT2035-1AP00
	20 ... 33V AC/DC				3RT2035-1NB30
S2 22kW	110V AC, 50Hz	50	70		3RT2036-1AF00
	230V AC, 50Hz				3RT2036-1AP00
	20 ... 33V AC/DC				3RT2036-1NB30
S2 30kW	110V AC, 50Hz	65	80		3RT2037-1AF00
	230V AC, 50Hz				3RT2037-1AP00
	20 ... 33V AC/DC				3RT2037-1NB30
S2 37kW	110V AC, 50Hz	80	90		3RT2038-1AF00
	230V AC, 50Hz				3RT2038-1AP00
	20 ... 33V AC/DC				3RT2038-1NB30
S3 45kW	110V AC, 50Hz	95	130		3RT2046-1AF00
	230V AC, 50Hz				3RT2046-1AP00
	20 ... 33V AC/DC				3RT2046-1NB30
S3 55kW	110V AC, 50Hz	110	130		3RT2047-1AF00
	230V AC, 50Hz				3RT2047-1AP00
	20 ... 33V AC/DC				3RT2047-1NB30

Contactor Relays S00	
Description	Part No.
Contactor relay 4NO, 230V, 50/60Hz	3RH2140-1AP00
Contactor relay 4NO, 24V DC	3RH2140-1BB40
Contactor relay 3NO + 1NC, 230V, 50/60Hz	3RH2131-1AP00
Contactor relay 3NO + 1NC, 24V DC	3RH2131-1BB40
Contactor relay 2NO + 2NC, 230V, 50/60Hz	3RH2122-1AP00
Contactor relay 2NO + 2NC, 24V DC	3RH2122-1BB40

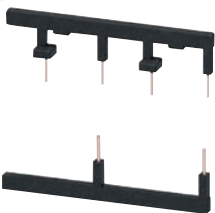
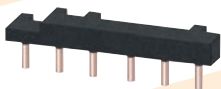
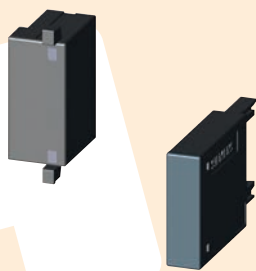
SIEMENS



INDUSTRIAL CONTROL

CONTACTORS & OVERLOADS

SIEMENS



Accessories Contactors, Contactor Relays

Description	Part No.
Auxiliary switch block, 4NO, size S00, S0 & S2	3RH2911-1FA40
Auxiliary switch block 2NO+2NC, size S00, S0 & S2	3RH2911-1HA22
Auxiliary switch block, 1NO+1NC, size S00, S0 & S2	3RH2911-1HA11
Auxiliary switch block, 2NO, size S00, S0 and S2	3RH2911-1HA20
RC element AC 127...240V size S00	3RT2916-1CD00
Suppression diode DC 24V, size S00	3RT2916-1DG00
Surge suppressor size S00 (AC 24...48V; DC 24...70V)	3RT2916-1BB00
RC element AC 127...240V, size S0	3RT2926-1CD00
Surge suppressor, size S0 (AC 24...48V; DC 24...70V)	3RT2926-1BB00
RC element AC 127...240V size S2	3RT2936-1CD00
Surge suppressor, size S2 (AC 24...48V; DC 24...70V)	3RT2936-1BB00

Components for Customer Assembly of Reversing & Star-Delta Starters

Description	Part No.
3RT202 S0-S0 - The reversing assembly kit contains: Mechanical interlock, 2 connecting clips for 2 contactors, wiring modules on the top and bottom • For main, auxiliary and control circuits (1) • Only for main circuit (2)	3RA2923-2AA1
3RT203 S2-S2 - The reversing assembly kit contains: 2 connecting pins for 2 contactors, wiring modules on the top and bottom • For main and auxiliary circuits • Only for main circuit (3)	3RA2933-2AA1
3RT201 S00-S00-S00 - The star-delta assembly kit contains: Mechanical interlock, 4 connecting clips for 3 contactors, a star jumper, wiring modules on the top and bottom • For main, auxiliary and control circuits	3RA2913-2BB1
3RT202 S0-S0-S0 - The star-delta assembly kit contains: Mechanical interlock, 4 connecting clips for 3 contactors, a star jumper, wiring modules on the top and bottom • For main, auxiliary and control circuits (1) • Only for main circuit (2)	3RA2923-2BB1
3RT203 S2-S2-S2 - The star-delta assembly kit contains: 4 connecting pins for 3 contactors, an S2 star jumper and wiring modules on the top and bottom for the main circuit and the auxiliary circuit, a cable for connecting the A2 coil contact from the line contactor to the A2 coil contact of the delta contactor. • Wiring modules on the top and bottom for the main circuit, a cable set for the auxiliary circuit and a cable for connecting the A2 coil contact from the line contactor to the A2 coil contact of the delta contactor. • Wiring modules on the top and bottom for the main circuit, a cable set for the auxiliary circuit and a cable for connecting the A2 coil contact from the line contactor to the A2 coil contact of the delta contactor.	3RA2933-2BB1

(1) Use of the 3RA2923-2AA1 assembly kit in conjunction with the 3RT202-.....-3MA0 contactors is limited because the auxiliary switches in the basic unit are not allowed to be used on account of the permanently mounted auxiliary switch block.

(2) Version in size S0 with spring-type terminals: Only the wiring modules for the main circuit are included. No connectors are included for the auxiliary and control circuit.

(3) Version in size S2 with spring-type terminals in the auxiliary and control circuits: Only the wiring modules for the main circuit are included. A cable set is included for the auxiliary circuit.

Sirius Overload relays

Thermal for Mounting onto Contactors, Class 10

Size	Setting Range (A)	Part No.
S00	0.45 ... 0.63	3RU2116-0GB0
	0.7 ... 1	3RU2116-0JB0
	0.9 ... 1.25	3RU2116-0KB0
	1.1 ... 1.6	3RU2116-1AB0
	1.4 ... 2	3RU2116-1BB0
	2.2 ... 3.2	3RU2116-1DB0
	2.8 ... 4	3RU2116-1EB0
	4.5 ... 6.3	3RU2116-1GB0
	5.5 ... 8	3RU2116-1HB0
	7 ... 10	3RU2116-1JB0
S0	9 ... 12.5	3RU2116-1KB0
	11 ... 16	3RU2116-4AB0
	14 ... 20	3RU2126-4BB0
	20 ... 25	3RU2126-4DB0
	27 ... 32	3RU2126-4EB0
	34 ... 40	3RU2126-4FB0
	28 ... 40	3RU2136-4FB0
	36 ... 45	3RU2136-4GB0
S2	40 ... 50	3RU2136-4HB0
	47 ... 57	3RU2136-4QB0
	54 ... 65	3RU2136-4JB0
	62 ... 73	3RU2136-4KB0
	70 ... 80	3RU2136-4RB0

Manual Motor Starters

Open design, enclosure IP20, resistant to changeable climates. Quick fastening on mounting rails
DIN EN 50 022, 35mm without auxiliary switch.

MS 116, 132, 450 & 495 Series

Type	Rating	Part No.
MS116 50kA Short Circuit Protection	0.16 - 0.25	MS116-0.25
	0.25 - 0.40	MS116-0.4
	0.40 - 0.63	MS116-0.63
	0.63 - 1.00	MS116-1.0
	1.00 - 1.60	MS116-1.6
	1.60 - 2.50	MS116-2.5
	2.50 - 4.00	MS116-4.0
	4.00 - 6.30	MS116-6.3
	6.30 - 10.00	MS116-10
	8.00 - 12.00	MS116-12
	10.00 - 16.00	MS116-16
	16.00 - 20.00	MS116-20
	20.00 - 25.00	MS116-25
25.00 - 32.00	MS116-32	
MS132 100kA Short Circuit Protection	0.40 - 0.63	MS132-0.63
	0.63 - 1.00	MS132-1.0
	1.00 - 1.60	MS132-1.6
	1.60 - 2.50	MS132-2.5
	2.50 - 4.00	MS132-4.0
	4.00 - 6.30	MS132-6.3
	6.30 - 10.00	MS132-10
	10.00 - 16.00	MS132-16
	16.00 - 20.00	MS132-20
	20.00 - 25.00	MS132-25
MS450-495	25.00 - 32.00	MS132-32
	28.00 - 40.00	MS450-40
	40.00 - 50.00	MS450-50
	45.00 - 63.00	MS495-63
	57.00 - 75.00	MS495-75
	70.00 - 90.00	MS495-90
	80.00 - 100.00	MS495-100

Accessories

For	Mounting	NO	NC	Part No.
Auxiliary Contact Blocks	Front	1	1	HKF1-11
		1	1	HK1-11
		2	-	HK1-20
MS116 - MS132 Series	Side	-	2	HK1-02
		1	1	SK1-11
Signal Contact	Side	2	-	SK1-20
		-	2	SK1-02
		1	1	SK1-11
MS116 - MS132 Series	Side	2	-	SK1-20
		-	2	SK1-02
		1	1	SK1-11

Under Voltage Releases

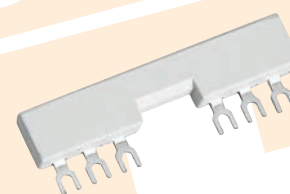
Type	AC Voltage	Part No.
MS116 - MS132 Series	24V	UA1-24
	48V	UA1-48
	110V	UA1-110
	230V	UA1-230
	415V	UA1-415

Busbar

For	No. of Devices Connected	No. of Auxiliary switches	Part No.
MS116 - MS132 65A Rated	2	-	PS1-2-0-65
		1	PS1-2-1-65
		2	PS1-2-2-65
		-	PS1-3-0-65
		1	PS1-3-1-65
	3	2	PS1-3-2-65
		-	PS1-4-0-65
		1	PS1-4-1-65
		2	PS1-4-2-65
		-	PS1-5-0-65
	4	1	PS1-5-1-65
		2	PS1-5-2-65
		-	PS1-5-0-65
		1	PS1-5-1-65
		2	PS1-5-2-65
5	2	PS1-5-2-65	
Busbar cover			BSI-3

Ancillaries

Type	Description	Part No.
Power infeed Blocks 65A	Flat	S1-M1-25
	High	S1-M2-25
Locking Device	Lock adaptor	SA1
	Locking assembly (adaptor SA1, padlock and three keys)	SA3





Motor Circuit Breakers - PKZM0 & PKZM4 Series

PKZM0 Series

Motor Rating @ 415V kW	Thermal Tripping Current Amps	Part No.
-	0.1 - 0.16	PKZM0-0.16
0.06	0.16 - 0.25	PKZM0-0.25
0.09	0.25 - 0.4	PKZM0-0.4
0.12	0.4 - 0.63	PKZM0-0.63
0.25	0.63 - 1	PKZM0-1
0.55	1 - 1.6	PKZM0-1.6
0.75	1.6 - 2.5	PKZM0-2.5
1.5	2.5 - 4	PKZM0-4
2.2	4 - 6.3	PKZM0-6.3
4	6.3 - 10	PKZM0-10
7.5	10 - 16	PKZM0-16
9	16 - 20	PKZM0-20
12.5	20 - 25	PKZM0-25
15	25 - 32	PKZM0-32

PKZM4

Motor Rating @ 415V kW	Thermal Tripping Current Amps	Part No.
7.5	10 - 16	PKZM4-16
12.5	16 - 25	PKZM4-25
15	24 - 32	PKZM4-32
20	32 - 40	PKZM4-40
25	40 - 50	PKZM4-50
30	50 - 58	PKZM4-58
34	55 - 63	PKZM4-63

Accessories

Auxiliary Contact Blocks

For	Position	NO	NC	Part No.
PKZM0/PKZM4	Top	1	1	NHI-E-11-PKZO
		1	-	NHI-E-10-PKZO
	Side	1	1	NHI11-PKZO
		1	2	NHI12-PKZO
		2	1	NHI21-PKZO

Motor Circuit Breakers - TeSys Series

GV2-ME Series

Rating 415V AC3 (kW)	Overload Release Setting Range	Part No.
-	0.10 - 0.16	GV2 ME01
0.06	0.16 - 0.25	GV2 ME02
0.09	0.25 - 0.40	GV2 ME03
0.12 - 0.18	0.40 - 0.63	GV2 ME04
0.25	0.63 - 1	GV2 ME05
0.37 - 0.55	1 - 1.6	GV2 ME06
0.75	1.6 - 2.5	GV2 ME07
1.1 - 1.5	2.5 - 4	GV2 ME08
2.2	4 - 6.3	GV2 ME10
3 - 4	6 - 10	GV2 ME14
5.5	9 - 14	GV2 ME16
7.5	13 - 18	GV2 ME20
9	17 - 23	GV2 ME21
11	20 - 25	GV2 ME22
15	24 - 32	GV2 ME32

Accessories

Auxiliary Contact Blocks - GV2 / GV3

For	Type	NO	NC	Part No.
		1	1	GVAE11
	Front	2	-	GVAE20
		1	- + 1 No Fault	GVAED101
		1	1	GVAN11
	Side	2	-	GVAN20
		1	+1 No Fault	GVAD1010

Power Connection Accessories - GV2 only

For	Type	Part No.
Combination block	Between GV2 and contactor LC1-K or LP1-K	GV2-AF01
	Between GV2 and contactor LC1-D09...D38	GV2-AF3
	2 tap-offs	GV2-G245 GV2-G254
Set of 3-pole 63A busbars	3 tap-offs	GV2-G345 GV2-G354
	4 tap-offs	GV2-G445 GV2-G454
	5 tap-offs	GV2-G554
Terminal blocks for supply to one ore more GV2-G busbar sets	Connection from the top	GV1-G09
	Can be fitted with current limiter GV1-L3 (GV2-ME and GV2-P)	GV2-G05

GV3-P Series

Rating 415V AC3 (kW)	Overload Release setting Range	Part No.
	9-13A	GV3P13
	12-18A	GV3P18
	17-25A	GV3P25
	23-32A	GV3P32
	30-40A	GV3P40
	37-50A	GV3P50
	48-65A	GV3P65

Power Connection Accessories

Description	For	Part No.
Set of 115A busbars for parallelling of contactors	2 contactors LC1 D40A...D65A or GV3P	GV3 G264
	3 contactors LC1 D40A...D65A or GV3P	GV3 G364

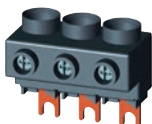
Schneider
Electric



INDUSTRIAL CONTROL

MOTOR CIRCUIT BREAKERS

SIEMENS



Sirius Motor Starter Breakers

Class 10, Screw-Type Connection

Size	Setting Range (A)	Power (kW)	Rated Current (A)	Part No.
S00	0.45...0.63	0.18	0.63	3RV2011-0GA10
	0.7...1.00	0.25	1.00	3RV2011-0JA10
	0.9...1.25	0.37	1.25	3RV2011-0KA10
	1.1...1.6	0.55	1.60	3RV2011-1AA10
	1.4...2	0.75	2.00	3RV2011-1BA10
	2.2...3.2	1.1	3.20	3RV2011-1DA10
	2.8...4	1.5	4.00	3RV2011-1EA10
	3.5...5	1.5	5.00	3RV2011-1FA10
	4.5...6.3	2.2	6.30	3RV2011-1GA10
	5.5...8	3.0	8.00	3RV2011-1HA10
S0	7...10	4.0	10.0	3RV2011-1JA10
	9...12.5	5.5	12.5	3RV2011-1KA10
	10...16	7.5	16.0	3RV2011-4AA10
	5.5...8	3.0	8.0	3RV2021-1HA10
	7...10	4.0	10.0	3RV2021-1JA10
	9...12.5	4.5	12.5	3RV2021-1KA10
	13...20	7.5	20.0	3RV2021-4BA10
	18...25	11	25.0	3RV2021-4DA10
	27...32	15	32.0	3RV2021-4EA10
	30...36	18.5	36.0	3RV2021-4PA10
32...40	40.0		3RV2031-4UA10	
S2	35...45	22	45.0	3RV2031-4VA10
	42...52		52.0	3RV2031-4WA10
	49...59	30	59.0	3RV2031-4XA10
	54...65		65.0	3RV2031-4JA10
	62...73	37	73.0	3RV2031-4KA10
	70...80		80.0	3RV2031-4RA10

Accessories

Description	Part No.
Transverse auxiliary switch, 1NO+1NC (S00, S0, S2)	3RV2901-1E
Lateral auxiliary switch, 1NO+1NC (S00, S0, S2)	3RV2901-1A
3-Phase infeed terminal, connection from above, S00, S0	3RV2925-5AB
3-Phase infeed terminal, connection from above, S2	3RV2935-5A

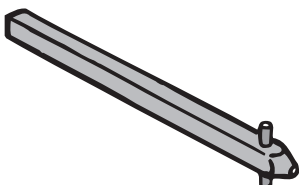
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PROTECTION DEVICES & SWITCHGEAR



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Isolators - OT Series

Base Mounting.

OT Series				
Ratings Thermal Lth Amps	AC22A @ 400V Amps	Poles	Supplied with Handle & Shaft	Part No.
OT16...OT125				
25	16	3	No	OT16F3
		4	No	OT16F4N2
32	25	3	No	OT25F3
		4	No	OT25F4N2
40	40	3	No	OT40F3
		4	No	OT40F4N2
63	63	3	No	OT63F3
		4	No	OT63F4N2
80	80	3	No	OT80F3
		4	No	OT80F4N2
115	100	3	No	OT100F3
		4	No	OT100F4N2
125	125	3	No	OT125F3
		4	No	OT125F4N2
OT160				
160	160	3	Yes	OT160G03P
		4	Yes	OT160G04P
OT200...OT800				
200	200	3	Yes	OT200E03P
		4	Yes	OT200E04P
350	250	3	Yes	OT250E03P
		4	Yes	OT250E04P
315	315	3	Yes	OT315E03P
		4	Yes	OT315E04P
400	400	3	Yes	OT400E03P
		4	Yes	OT400E04P
630	630	3	Yes	OT630E03P
		4	Yes	OT630E04P
800	800	3	Yes	OT800E03P
		4	Yes	OT800E04P
OT1000...OT1600				
1000	1000	3	Yes	OT1000E03P
		4	Yes	OT1000E04P
1250	1250	3	Yes	OT1250E03P
		4	Yes	OT1250E04P
1600	1600	3	Yes	OT1600E03P
		4	Yes	OT1600E04P

OT series door mounting options also available 6/8 pole and changeover switches available.

Handles

Indication I - ON and O - OFF. Door Interlock in ON Position.

Selector Type			Shaft for Selector Type Handles		
For Type	Selector Type	Part No.	For Type	Length (mm)	Part No.
OT16... OT125F	IP54 Yellow/red	OHYS1AH	OT16...OT125	185	OX6X85
	IP65 Black Defeatable	OHBS2AJ		130	OX6X130
	IP65 Yellow/red Defeatable	OHYS2AJ		180	OX6X180
	IP54 Black	OHBS1AH		250	OX6X250
	IP65 Black Non Defeatable	OHBS2AJ1		330	OX6X330
	IP65 Yellow/red Non Defeatable	OHYS2AJ1			

Handles

Black padlockable with max. 3 padlocks in OFF-position, Door interlock in ON position defeatable.

Pistol Grip			Shaft for Pistol Grip Handles		
For Type	Selector Type	Part No.	For Type	Length (mm)	Part No.
For 6mm Shaft			For 6mm shaft		
OT16...	IP65 Black	OH65J6	OT16...OT250	150	OX6X150
OT250	IP65 Red / Yellow	OHY65J6		210	OX6X210
				265	OX6X265
				290	OX6X290
				360	OX6X360
OT315...	IP65 Black	OH6145J12	400	OX6X400	
OT1600	IP65 Black	OH6175J12	430	OX6X430	
	IP65 Black Butterfly On/Off	OH6150J12P	For 12mm shaft		
	IP65 Black Butterfly On/Off	OH6200J12P	250	OX6X250	
			280	OX6X280	
			325	OX6X325	
			395	OX6X395	
			465	OX6X465	
			535	OX6X535	

Accessories

Auxiliaries - Snap-On Mounting

For Type	No	NC	Part No.
	1	-	OA1G10
OT16...OT160G	-	1	OA1G01
	1	1	OA2G11

Fixed Neutral Terminal

For Type	Part No.
OT16...OT40F3	OTPN40FP
OT63...OT80F3	OTPN80FP
OT100...OT125F3	OTPN125FP

Detachable Neutral Terminal

For Type	Part No.
OT16...OT40F3	OTPD40FP
OT63...OT80F3	OTPD80FP
OT100...OT125F3	OTPD125FP

Simultaneous function with the main contacts.

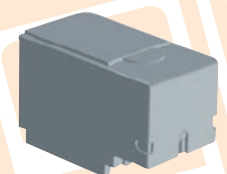
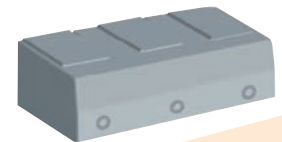
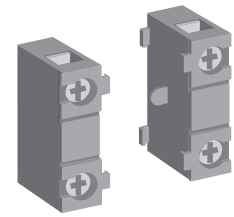
Fourth Pole

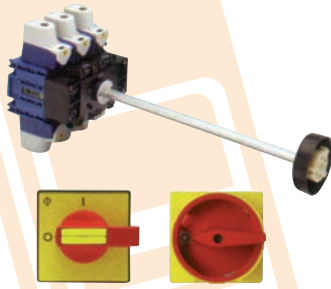
For Type	Part No.
OT16...OT40F3	OTPS40FPN1
OT63F...OT80F3	OTPS80FP
OT100...OT125F3	OTPS125FP

Terminal Shrouds

For Type	Poles	Part No.
OT16...OT40F	4	OTS40T1
OT16...OT40F	3	OTS40T3
OT63...OT80F	1	OTS63T1
OT63...OT80F	3	OTS63T3
OT100...OT125F	1	OTS125T1
OT100...OT125F	3	OTS125T3
OT160G03P	3	OTS160G1L3
OT160G04P	4	OTS160G1L4
Grey Terminal Shrouds		
200A / 250A	3	OTS250G1L/3
	4	OTS250G1L/4
315A / 400A	3	OTS400G1L/3
	4	OTS400G1L/4

ABB



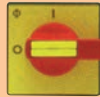


Red / Yellow Padlockable Handle

Handle type for switches KG10A...KG160



Handle type for switches KG210...KG315



Handles

- Black handle available
- Door interlock
- Adjustable metal operating shaft 200mm long (KG125 - KG315 300mm long)
- IP66/67 protection base or DIN rail mounting
- Fingerproof terminals - KG10A...KG64B
- Incoming terminal cover - KG80...KG315 (KG210...KG315 incl. outgoing cover)
- Suitable for DIN rail mounting up to KG105

Base or DIN Rail Mounting

Ratings Thermal Lth Amps	AC23 @415V kW	Front Plate Size (mm)	Main Poles	Auxiliaries		Part No.
				NO	NC	
KG10A...KG160						
20	5.5	48 x 48	3			KG10A T203/GBA430 VE
			4			KG10A T204/GBA450 VE
25	7.5	48 x 48	3			KG20A T203/GBA430 VE
			4			KG20A T204/GBA450 VE
		64 x 64	6			KG20B T206/GBA221 VE
32	11	48 x 48	4			KG32A T203/GBA430 VE
			3			KG32A T204/GBA450 VE
		64 x 64	4			KG32B T206/GBA221 VE
40	15	64 x 64	3			KG41B T203/GBA430 VE
			4			KG41B T204/GBA450 VE
			6			KG41B T206/GBA221 VE
63	22	64 x 64	3			KG64B T203/GBA430 VE
			4			KG64B T204/GBA450 VE
			6			KG64B T206/GBA221 VE
80	30	64 x 64	3			KG80 T203/GBA430 VE
			4			KG80 T204/GBA450 VE
			6			KG80 T206/GBA221 VE
100	37	64 x 64	3			KG100 T203/GBA430 VE
			4			KG100 T204/GBA450 VE
		64 x 64	6			KG100 T206/GBA221 VE
125	45	88 x 88	3	2	2 ⁽¹⁾	KG105 T203/GBA430 VE
			4	2	2	KG125 T203/GBA055 VE
		88 x 88	4	2	2	KG125 T204/GBA105 VE
160	55	88 x 88	3	2	2	KG160 T203/GBA055 VE
			4	2	2	KG160 T204/GBA105 VE
KG210...KG315						
200	75	88 x 88	3	2	2	KG210 T203/GBA030 VE
			4	2	2	KG210 T204/GBA040 VE
250	90	88 x 88	3	2	2	KG250 T203/GBA030 VE
			4	2	2	KG250 T204/GBA040 VE
315	110	88 x 88	3	2	2	KG315 T203/GBA030 VE
			4	2	2	KG315 T204/GBA040 VE

(1) Suitable for applications requiring larger cable terminations.

Accessories

Rated lth: K0=10A, K1=16A, K2=16A.

Auxiliary Contacts

Switch Mounting	For	NO	NC	Part No.
Base or DIN rail	KG20A, KG20B, KG32A, KG32B	1	1	K0 H010/A11-VE
	KG41B, KG64B	1	1	K1 H010/A11-VE
	KG80...KG105	1	1	K2 H010/A11-VE

Earth Terminal

For	Part No.
KG20A, KG20B, KG32A, KG32B	K0 H052/A
KG41B, KG64B	K1 H052/B
KG80...KG105	K2 H052/C

Neutral Terminal (Fully Rated)

For	Part No.
KG20A, KG20B, KG32A, KG32B	K0 H053/A
KG41B, KG64B	K1 H053/B
KG80...KG100	K2 H053/C

Terminal Covers

For	No. of Poles	Part No.
KG10A, KG10B	3 & 4	S0 M160/A12 K2
	3	K0 M160/3
KG20A, KG20B, KG32A, KG32B	4	K0 M160/4
	3	K1 M160/3
KG41B, KG64B	4	K1 M160/4
	3	K2 M160/3
KG80...KG105	4	K2 M160/4

Isolators - T & P Series

Base or DIN Rail Mounting

Ratings Thermal Lth Amps	AC23 @415V kW	AC3 @415V kW	Main Poles	Part No.
20	6.5	4	3	T0-2-1/V/SVB
			4	T0-2-8900/V/SVB
			6	T0-3-8342/V/SVB
25	13	7.5	3	P1-25/V/SVB
			4	P1-25/V/SVB/N
32	15	13	3	P1-32/V/SVB
			4	P1-32/V/SVB/N
63	37	30	6	T3-3-8342/V/SVB
			3	P3-63/V/SVB
			4	P3-63/V/SVB/N
100	50	37	6	T5B-3-8342/V/SVB
			3	P3-100/V/SVB
			4	P3-100/V/SVB/N
	30	30	6	T5-3-8342/V/SVB

Door Mounting (Flush Mounting)

Ratings Thermal Lth Amps	AC23 @415V kW	AC3 @415V kW	Main Poles	Part No.
20	6.5	4	3	T0-2-1/EA/SVB
			4	T0-2-8900/EA/SVB
			6	T0-3-8342/EA/SVB
25	13	7.5	3	P1-25/EA/SVB
			4	P1-25/EA/SVB/N
32	15	13	3	P1-32/EA/SVB
			4	P1-32/EA/SVB/N
63	37	30	6	T3-3-8342/EA/SVB
			3	P3-63/EA/SVB
			4	P3-63/EA/SVB/N
100	50	37	6	T5B-3-8342/EA/SVB
			3	P3-100/EA/SVB
			4	P3-100/EA/SVB/N
	30	30	6	T5-3-8342/EA/SVB

Accessories

Auxiliary Contacts

For	NO	NC	Part No.
P1...P3 Base or DIN rail mounting version	1	1	HI11-P1/P3Z
P1...P3 Door mounting version	1	1	HI11-P1/P3E

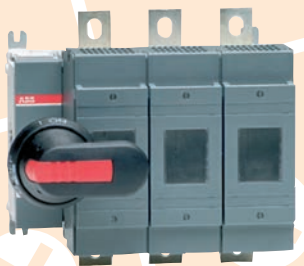
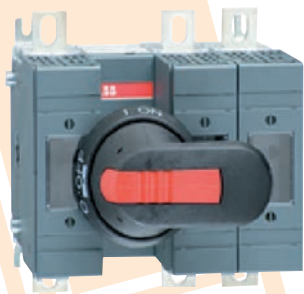
Neutral Terminal

For	Part No.
P1 Base or DIN rail mounting version	N-P1Z
P1 Door mounting version	N-P1E
P3 Base or DIN rail mounting version	N-P3Z
P3 Door mounting version	N-P3E

Enclosed Isolators

Ratings Thermal Lth Amps	AC23 @415V kW	AC3 @415V kW	Main Poles	Part No.
20	6.5	4	3	T0-2-1/I/SVB
25	13	7.5	3	P1-25/I2H/SVB
32	15	13	3	P1-32/I2H/SVB
63	37	30	3	P3-63/I4/SVB
100	50	37	3	P3-100/I5/SVB





Fuse Switches - OS Series

Base Mounting

Ratings Thermal Lth Amps	AC23 415V kW	Poles	BC Fuse Type	Supplied with Handle & Shaft	Part No.
Mini OS20...OS32					
20	7.5	3	A1	No	OS20FB12A1-2
		4	A1	Yes	OS20FB22A1N1
32	15	3	A1	Yes	OS32FB12A1
		4	A1	Yes	OS32FB22A1N1
		3	A2	Yes	OS32FB12A2
OS32...OS160					
32	15	3	A2 - A3	Yes	OS32GB12P
		4*	A2 - A3	Yes	OS32GB22N1P
63	30	3	A2 - A3	Yes	OS63GB12P
		4*	A2 - A3	Yes	OS63GB22N1P
100	55	3	A2 - A3	Yes	OS100GB12P
		4*	A2 - A3	Yes	OS100GB22N1P
125	60	3	A2 - A4*	Yes	OS125GB12P
		4*	A2 - A4*	Yes	OS125GB22N1P
160	90	3	A2 - A4*	Yes	OS160GB12P
		4*	A2 - A4*	Yes	OS160GB22N1P
OS200...OS800					
200	110	3	B1 - B2	Yes	OS200B12P
		4*	B1 - B2	Yes	OS200B22N2P
250	140	3	B1 - B3	Yes	OS250B12P
		4*	B1 - B3	Yes	OS250B22N2P
315	160	3	B1 - B4	Yes	OS315B12P
		4*	B1 - B4	Yes	OS315B22N2P
400	220	3	B1 - B4*	Yes	OS400B12P
		4*	B1 - B4*	Yes	OS400B22N2P
630	355	3	C1 - C2*	Yes	OS630B12P
		4*	C1 - C2*	Yes	OS630B22N2P
800	450	3	C1 - C2*	Yes	OS800B12P
		4*	C1 - C2*	Yes	OS800B22N2P

* The 4th pole is provided with a solid link

♦ Maximum fuse body diameter 32mm

Handles

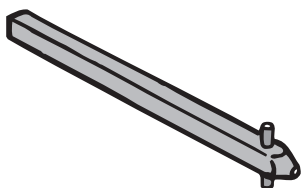
IP65, padlockable with 3 three padlocks in OFF position, door interlock in ON position (defeatable to allow authorised personnel access for inspection).

Pistol Grip

For Type	Type	Length (mm)	Part No.
For 6mm Shaft			
OS20...OS250	IP65 Black		OHB65J6
	IP65 Red / Yellow		OHY65J6
	IP65 Black Test Pos		OHB65J6T
For 12mm Shaft			
OS315...OS800	IP65 Black		OHB125J12
	IP65 Black		OHB145J12
	IP65 Black		OHB175J12
	IP65 Black Butterfly On / Off		OHB150J12P
	IP65 Black Butterfly On / Off		OHB200J12P

Extension Shafts

For Type	Length (mm)	Part No.
6mm Shaft Length		
OS20...OS250	150	OSP6X150
	210	OSP6X210
	265	OSP6X265
	290	OSP6X290
	360	OSP6X360
	400	OSP6X400
	430	OSP6X430
12mm Shaft Length		
OS315...OS800	250	OSP12X250
	280	OSP12X280
	325	OSP12X325
	395	OSP12X395
	465	OSP12X465
	535	OSP12X535



Accessories

Auxiliary contact.

Top Mounted

For Type	NO	NC	Change Over	Part No.
Mini OS20...32	-	1	1	OA4B1C
	1	-		OA4B01
				OA4B10
Mounting frame for above				OSZ4

Max. 6 auxiliary contacts mountable onto the left hand side with the mounting frame OSZ4.

Side Mounted

For Type	NO	NC	Part No.
OS32G - OS125G	1	-	OA1G10
	-	1	OA3G01
Module for auxiliary contacts screw mounting to the left hand side of the switch			OEA28

Max. 8 auxiliary contacts mountable onto the left hand side with the mounting frame OEA28
 OS315...OS32 Max. 4 test contacts or 2 test contacts + 2 test indication contacts.
 OS315...OS400 Max. 4 test contacts and 4 test indication contacts.

Detachable Neutral Link

For Type	Part No.
OS Mini	OESAZX171
OS32...OS160G up to 16mm ² cable	OSZ1
OS32...OS160G up to 35mm ² cable	OSZ2

Fixed Neutral Terminal

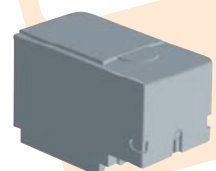
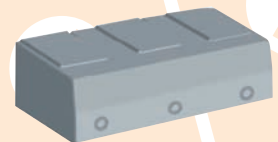
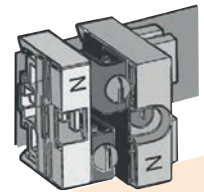
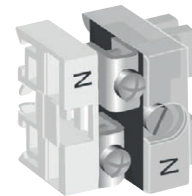
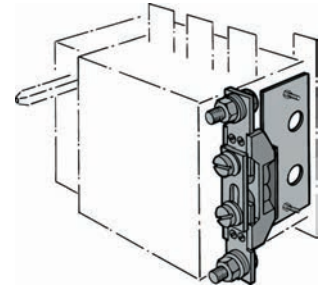
For Type	Part No.
OS200...OS250	OXN250
OS315...OS400	OXN400

Terminal Shrouds

For Type	Poles	Handle Type	Part No.
OS100...OS160	3	Short	OSS160GG1S/3
	4	Short	OSS160GG1S/4
	3	Long	OSS160GG1L/3
	4	Long	OSS160GG1L/4
OS200	3	Long	OSS200G1L/3
	4	Short	OSS200G1S/3
	4	Long	OSS200G1L/4
	4	Short	OSS200G1S/4
OS250	3	Long	OSS250G1L/3
	4	Short	OSS250G1S/3
	4	Long	OSS250G1L/4
	4	Short	OSS250G1S/4
OS315...400	3	Long	OSS400G1L/3
	4	Short	OSS400G1S/3
	4	Long	OSS400G1L/4
	4	Short	OSS400G1S/4
OS630...800	3	Long	OSS800G1L/3
	4	Long	OSS800G1L/4

Extension Shafts

For Type	Length (mm)	Part No.
OS20...OS250	170	OMP6X170
	210	OMP6X210
	265	OMP6X265
	290	OMP6X290
	360	OMP6X360
	400	OMP6X400
	430	OMP6X430
	500	OMP6X500





Type B

Small inrush or switching surges, heating loads, tungsten lighting.

Type C

Moderate switching surges for short durations, eg. discharge lamps.

Type D

High inrush applications such as Transformers

System proM Compact - S200 (10kA)

S200 Series MCB's 10KA breaking capacity at 230/400V to BS EN 60898 Types B, C and 6kA for D.

1 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
1	S201M-B1	S201M-C1	S201M-D1
2	S201M-B2	S201M-C2	S201M-D2
3	S201M-B3	S201M-C3	S201M-D3
4	S201M-B4	S201M-C4	S201M-D4
6	S201M-B6	S201M-C6	S201M-D6
8	S201M-B8	S201M-C8	S201M-D8
10	S201M-B10	S201M-C10	S201M-D10
13	S201M-B13	S201M-C13	S201M-D13
16	S201M-B16	S201M-C16	S201M-D16
20	S201M-B20	S201M-C20	S201M-D20
25	S201M-B25	S201M-C25	S201M-D25
32	S201M-B32	S201M-C32	S201M-D32
40	S201M-B40	S201M-C40	S201M-D40
50	S201M-B50	S201M-C50	S201M-D50
63	S201M-B63	S201M-C63	S201M-D63

2 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
1	S202M-B1	S202M-C1	S202M-D1
2	S202M-B2	S202M-C2	S202M-D2
3	S202M-B3	S202M-C3	S202M-D3
4	S202M-B4	S202M-C4	S202M-D4
6	S202M-B6	S202M-C6	S202M-D6
8	S202M-B8	S202M-C8	S202M-D8
10	S202M-B10	S202M-C10	S202M-D10
13	S202M-B13	S202M-C13	S202M-D13
16	S202M-B16	S202M-C16	S202M-D16
20	S202M-B20	S202M-C20	S202M-D20
25	S202M-B25	S202M-C25	S202M-D25
32	S202M-B32	S202M-C32	S202M-D32
40	S202M-B40	S202M-C40	S202M-D40
50	S202M-B50	S202M-C50	S202M-D50
63	S202M-B63	S202M-C63	S202M-D63

3 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
1	S203M-B1	S203M-C1	S203M-D1
2	S203M-B2	S203M-C2	S203M-D2
3	S203M-B3	S203M-C3	S203M-D3
4	S203M-B4	S203M-C4	S203M-D4
6	S203M-B6	S203M-C6	S203M-D6
8	S203M-B8	S203M-C8	S203M-D8
10	S203M-B10	S203M-C10	S203M-D10
13	S203M-B13	S203M-C13	S203M-D13
16	S203M-B16	S203M-C16	S203M-D16
20	S203M-B20	S203M-C20	S203M-D20
25	S203M-B25	S203M-C25	S203M-D25
32	S203M-B32	S203M-C32	S203M-D32
40	S203M-B40	S203M-C40	S203M-D40
50	S203M-B50	S203M-C50	S203M-D50
63	S203M-B63	S203M-C63	S203M-D63

Accessories for S200 Series MCB's

Function: indication of the position of the device's contacts. Suitable for MCBs S200 series.

Auxiliary Contact

NO	NC	Change Over	Mounting	Part No.
-	-	1	Right	S2C-H6R
1	1		Left	S2C-H11L
2	-		Left	S2C-H20L
-	2		Left	S2C-H02L

Function: choice through a selector between indication of the position of the device's contacts and signalling of the (overcurrent/short-circuit for MCBs and RCBOs; earth fault for RCCBs and RCBOs).

Signal Contact

For Type	Mounting	Part No.
Signal / auxiliary switch	Right	S2C-S/H6R

Function: remote opening of the device when a voltage is applied.

Shunt Trips

Voltage	Mounting	Part No.
16-60V AC/DC	Right	S2C-A1
110-415V AC / 115-250V DC	Right	S2C-A2

Under Voltage Release

Voltage	Mounting	Part No.
24V AC	Right	S2C-UA24AC
110V AC	Right	S2C-UA110AC
230V AC	Right	S2C-UA230AC

The adaptors permit padlocking of the MCB in an "on" or "off" position. One adaptor can be fitted per MCB pole, allowing up to three individual padlocks to be fitted to a triple pole unit.

Locking Devices

Description	Part No.
Adaptor 3mm hasp.	SA1
Adaptor 6mm hasp.	SA1E
Padlock & 2 keys	SA2





System proM - Residual Current Circuit Breaker

F200 AC type

Protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct (with $\Delta n=30$ mA) contacts; command and isolation of resistive and inductive circuits.

Features

Application: Residential, commercial, industrial.
 Standard: IEC/EN 61008, UL 1053
 Marking: According to EN 61008

2 Pole F202 Class AC

Rating Amps	30mA Part No.	300mA Part No.
25	F202 AC-25/0.03	F202 AC-25/0.3
40	F202 AC-40/0.03	F202 AC-40/0.3
63	F202 AC-63/0.03	F202 AC-63/0.3
80	F202 AC-80/0.03	-
100	F202 AC-100/0.03	-

4 Pole F204 Class AC

Rating Amps	30mA Part No.	100mA Part No.	300mA Part No.
25	F204 AC-25/0.03	-	F204 AC-25/0.3
40	F204 AC-40/0.03	-	F204 AC-40/0.3
63	F204 AC-63/0.03	-	F204 AC-63/0.3
80	F204 AC-80/0.03	-	-
100	F204 AC-100/0.03	F204 AC-100/0.1	F204 AC-100/0.3

F200 A type

Protection against the effects of sinusoidal alternating and direct pulsating earth fault currents; protection against indirect contacts and additional protection against direct (with $I \Delta n=30$ mA) contacts; command and isolation of resistive and inductive circuits.

Features

Application: Residential, commercial, industrial.
 Standard: IEC/EN 61008, UL 1053
 Marking: According to EN 61008

2 Pole F202 Class A

Rating Amps	10mA Part No.	30mA Part No.	300mA Part No.
16	F202 A- 16/0.01		
25		F202 A-25/0.03	F202 A-25/0.3
40		F202 A-40/0.03	F202 A-40/0.3
63		F202 A-63/0.03	F202 A-63/0.3
80		F202 A-80/0.03	F202 A-80/0.3
100		F202 A-100/0.03	F202 A-100/0.3

4 Pole F204 Class A

Rating Amps	30mA Part No.	300mA Part No.
25	F204 A-25/0.03	F204 A-25/0.3
40	F204 A-40/0.03	F204 A-40/0.3
63	F204 A-63/0.03	F204 A-63/0.3
80	F204 A-80/0.03	F204 A-80/0.3
100	F204 A-100/0.03	F204 A-100/0.3

System proM - Residual Current Blocks DDA200 series

RCD-block for assembly on site with MCBs S 200 series. Protection against the effects of sinusoidal alternating earth fault currents; protection against indirect contacts and additional protection against direct (with $I_{\Delta n}=30$ mA) contacts.

Features

Application: Residential, commercial, industrial.
Standard: IEC/EN 61009 Ann. G

DDA200 Blocks

Rating Amps	No. Of Poles	Part No.
63A 30mA	2	DDA202AC-63/0.03
	3	DDA203AC-63/0.03
	4	DDA204AC-63/0.03

Other ratings available

System proM - Single Pole / Solid Neutral RCBO DSE201 series

DSE201 AC type, B and C characteristics

DSE201 is a 1P+N residual current circuit breaker with overcurrent protection (RCBO) in one module for the protection against short-circuit currents, overload, earth fault currents, indirect contacts, additional protection against direct contacts. DSE201 is equipped with supply neutral wire and functional earth wire.

Features

Application: Residential, commercial, industrial.
Standard: IEC 61009-1; IEC 61009-2-2; AS/NZS 61009

DSE201 RCBOs

Rating Amps	Sensitivity	Type B	Type C
		30mA Part No.	30mA Part No.
6	30	DSE201 M-B6 AC30	DSE201 M-C6 AC30
10	30	DSE201 M-B10 AC30	DSE201 M-C10 AC30
16	30	DSE201 M-B16 AC30	DSE201 M-C16 AC30
20	30	DSE201 M-B20 AC30	DSE201 M-C20 AC30
25	30	DSE201 M-B25 AC30	DSE201 M-C25 AC30
32	30	DSE201 M-B32 AC30	DSE201 M-C32 AC30
40	30	DSE201 M-B40 AC30	DSE201 M-C40 AC30
50	30	DSE201 M-B50 AC30	DSE201 M-C50 AC30

Devices of 10mA sensitivity available on request.

System proM - DS201C RCBOs Single Pole & Switched Neutral

Features

To provide protection against earth leakage faults, short circuits and overloads in residential, commercial and industrial electrical distribution systems. Ideal for applications where regulations require the neutral to be switched such as petrol stations and caravan sites etc. suitable for mounting on DIN rail.

Technical Data

Specification: BS EN 61009: Class AC device
Current ratings: 6 to 40A
Rated voltage: 230V AC
Breaking capacity: DS201 - 6kA / DS201M - 10kA
Maximum service voltage: 240V AC minimum operating voltage:
110V AC frequency: 50 - 60Hz
Life expectancy: 10,000 electrical & 20,000 mechanical operation

DS201C & DS201M RCBO's Type C Curve

Rating	Sensitivity (mA)	6kA Part No.	10kA Part No.
6	30	DS201C 6AC30	DS201MC 6AC30
10	30	DS201C 10AC30	DS201MC 10AC30
16	30	DS201C 16AC30	DS201MC 16AC30
20	30	DS201C 20AC30	DS201MC 20AC30
25	30	DS201C 25AC30	DS201MC 25AC30
32	30	DS201C 32AC30	DS201MC 32AC30
40	30	DS201C 40AC30	DS201MC 40AC30

ABB





FAZ Series (10kA)

10kA Breaking capacity IEC EN 60898
15kA Breaking capacity IEC EN 60947-2

1 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
0.5	-	FAZ-C0.5/1	FAZ-D0.5/1
1	-	FAZ-C1/1	FAZ-D1/1
2	-	FAZ-C2/1	FAZ-D2/1
3	-	FAZ-C3/1	FAZ-D3/1
4	-	FAZ-C4/1	FAZ-D4/1
6	FAZ-B6/1	FAZ-C6/1	FAZ-D6/1
10	FAZ-B10/1	FAZ-C10/1	FAZ-D10/1
13	FAZ-B13/1	FAZ-C13/1	FAZ-D13/1
16	FAZ-B16/1	FAZ-C16/1	FAZ-D16/1
20	FAZ-B20/1	FAZ-C20/1	FAZ-D20/1
25	FAZ-B25/1	FAZ-C25/1	FAZ-D25/1
32	FAZ-B32/1	FAZ-C32/1	FAZ-D32/1
40	FAZ-B40/1	FAZ-C40/1	FAZ-D40/1
50	FAZ-B50/1	FAZ-C50/1	FAZ-D50/1
63	FAZ-B63/1	FAZ-C63/1	FAZ-D63/1

2 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
0.5	-	FAZ-C0.5/2	FAZ-D0.5/2
1	-	FAZ-C1/2	FAZ-D1/2
2	-	FAZ-C2/2	FAZ-D2/2
3	-	FAZ-C3/2	FAZ-D3/2
4	-	FAZ-C4/2	FAZ-D4/2
6	FAZ-B6/2	FAZ-C6/2	FAZ-D6/2
10	FAZ-B10/2	FAZ-C10/2	FAZ-D10/2
13	FAZ-B13/2	FAZ-C13/2	FAZ-D13/2
16	FAZ-B16/2	FAZ-C16/2	FAZ-D16/2
20	FAZ-B20/2	FAZ-C20/2	FAZ-D20/2
25	FAZ-B25/2	FAZ-C25/2	FAZ-D25/2
32	FAZ-B32/2	FAZ-C32/2	FAZ-D32/2
40	FAZ-B40/2	FAZ-C40/2	FAZ-D40/2
50	FAZ-B50/2	FAZ-C50/2	FAZ-D50/2
63	FAZ-B63/2	FAZ-C63/2	FAZ-D63/2

3 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
0.5	-	FAZ-C0.5/3	FAZ-D0.5/3
1	-	FAZ-C1/3	FAZ-D1/3
2	-	FAZ-C2/3	FAZ-D2/3
3	-	FAZ-C3/3	FAZ-D3/3
4	-	FAZ-C4/3	FAZ-D4/3
6	FAZ-B6/3	FAZ-C6/3	FAZ-D6/3
10	FAZ-B10/3	FAZ-C10/3	FAZ-D10/3
13	FAZ-B13/3	FAZ-C13/3	FAZ-D13/3
16	FAZ-B16/3	FAZ-C16/3	FAZ-D16/3
20	FAZ-B20/3	FAZ-C20/3	FAZ-D20/3
25	FAZ-B25/3	FAZ-C25/3	FAZ-D25/3
32	FAZ-B32/3	FAZ-C32/3	FAZ-D32/3
40	FAZ-B40/3	FAZ-C40/3	FAZ-D40/3
50	FAZ-B50/3	FAZ-C50/3	FAZ-D50/3
63	FAZ-B63/3	FAZ-C63/3	FAZ-D63/3

AZ Series (15-25kA)

15-25kA Breaking capacity BS EN 60 947-2.

1 Pole (Note width 27mm)		
Rating Amps	Type C Part No.	Type D Part No.
20	AZ-C20	AZ-D20
25	AZ-C25	AZ-D25
32	AZ-C32	AZ-D32
40	AZ-C40	AZ-D40
50	AZ-C50	AZ-D50
63	AZ-C63	AZ-D63
80	AZ-C80	AZ-D80
100	AZ-C100	AZ-D100
125	AZ-C125	AZ-D125

2 Pole (Note width 54mm)		
Rating Amps	Type C Part No.	Type D Part No.
20	AZ-2-C20	-
25	AZ-2-C25	-
32	AZ-2-C32	-
40	AZ-2-C40	-
50	AZ-2-C50	AZ-2-D50
63	AZ-2-C63	AZ-2-D63
80	AZ-2-C80	AZ-2-D80
100	AZ-2-C100	AZ-2-D100
125	AZ-2-C125	AZ-2-D125

3 Pole (Note width 81mm)		
Rating Amps	Type C Part No.	Type D Part No.
20	AZ-3-C20	-
25	AZ-3-C25	-
32	AZ-3-C32	-
40	AZ-3-C40	-
50	AZ-3-C50	AZ-3-D50
63	AZ-3-C63	AZ-3-D63
80	AZ-3-C80	AZ-3-D80
100	AZ-3-C100	AZ-3-D100
125	AZ-3-C125	AZ-3-D125

Accessories

Auxiliary Contacts			
For	NO	NC	Part No.
FAZ	1	1	FAZ-XHIN11
AZ	1	1	AZ-XHI11

Shunt Trips		
For	Rating	Part No.
AZ	110 - 415V AC	AZ-XAA (110-415VAC)
	12 - 60V AC	AZ-XAA (12-60VAC)
FAZ	110 - 415V AC	FAZ-XAA-C-110-415VAC
	12 - 110V AC	FAZ-XAA-C-12-110VAC

Ancillaries		
For	Type	Part No.
FAZ	Shrouds for unused busbar terminals	ZV-BS-G
	Incoming terminals miniature circuit breaker 25mm ²	FAZ-XK25
	35mm ² touch proof connection to busbar	FAZ-XK35

Undervoltage Release		
For	Type	Part No.
FAZ	115V AC	FAZ-XUA (115VAC)
	230V AC	FAZ-XUA (230VAC)
	400V AC	FAZ-XUA (400VAC)





Series IC60N (6kA)

6kA Breaking capacity to BS EN 60898.

1 Pole

Rating Amps	Type C Part No.	Type D Part No.
1	A9F44 101	A9F45 101
2	A9F44 102	A9F45 102
4	A9F44 104	A9F45 104
6	A9F44 106	A9F45 106
10	A9F44 110	A9F45 110
16	A9F44 116	A9F45 116
20	A9F44 120	A9F45 120
25	A9F44 125	A9F45 125
32	A9F44 132	A9F45 132
40	A9F44 140	A9F45 140
50	A9F44 150	A9F45 150
63	A9F44 163	A9F45 163

2 Pole

Rating Amps	Type C Part No.	Type D Part No.
1	A9F44 201	A9F45 201
2	A9F44 202	A9F45 202
4	A9F44 204	A9F45 204
6	A9F44 206	A9F45 206
10	A9F44 210	A9F45 210
16	A9F44 216	A9F45 216
20	A9F44 220	A9F45 220
25	A9F44 225	A9F45 225
32	A9F44 232	A9F45 232
40	A9F44 240	A9F45 240
50	A9F44 250	A9F45 250
63	A9F44 263	A9F45 263

3 Pole

Rating Amps	Type C Part No.	Type D Part No.
1	A9F44 301	A9F45 301
2	A9F44 302	A9F45 302
4	A9F44 304	A9F45 304
6	A9F44 306	A9F45 306
10	A9F44 310	A9F45 310
16	A9F44 316	A9F45 316
20	A9F44 320	A9F45 320
25	A9F44 325	A9F45 325
32	A9F44 332	A9F45 332
40	A9F44 340	A9F45 340
50	A9F44 350	A9F45 350
63	A9F44 363	A9F45 363

Series IC60H (10kA)

10kA Breaking capacity to BS EN 60898



1 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
1	A9F53 101	A9F54 101	A9F55 101
2	A9F53 102	A9F54 102	A9F55 102
4	A9F53 104	A9F54 104	A9F55 104
6	A9F53 106	A9F54 106	A9F55 106
10	A9F53 110	A9F54 110	A9F55 110
16	A9F53 116	A9F54 116	A9F55 116
20	A9F53 120	A9F54 120	A9F55 120
25	A9F53 125	A9F54 125	A9F55 125
32	A9F53 132	A9F54 132	A9F55 132
40	A9F53 140	A9F54 140	A9F55 140
50	A9F53 150	A9F54 150	A9F55 150
63	A9F53 163	A9F54 163	A9F55 163



2 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
1	A9F53 201	A9F54 201	A9F55 201
2	A9F53 202	A9F54 202	A9F55 202
4	A9F53 204	A9F54 204	A9F55 204
6	A9F53 206	A9F54 206	A9F55 206
10	A9F53 210	A9F54 210	A9F55 210
16	A9F53 216	A9F54 216	A9F55 216
20	A9F53 220	A9F54 220	A9F55 220
25	A9F53 225	A9F54 225	A9F55 225
32	A9F53 232	A9F54 232	A9F55 232
40	A9F53 240	A9F54 240	A9F55 240
50	A9F53 250	A9F54 250	A9F55 250
63	A9F53 263	A9F54 263	A9F55 263



3 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
1	A9F53 301	A9F54 301	A9F55 301
2	A9F53 302	A9F54 302	A9F55 302
4	A9F53 304	A9F54 304	A9F55 304
6	A9F53 306	A9F54 306	A9F55 306
10	A9F53 310	A9F54 310	A9F55 310
16	A9F53 316	A9F54 316	A9F55 316
20	A9F53 320	A9F54 320	A9F55 320
25	A9F53 325	A9F54 325	A9F55 325
32	A9F53 332	A9F54 332	A9F55 332
40	A9F53 340	A9F54 340	A9F55 340
50	A9F53 350	A9F54 350	A9F55 350
63	A9F53 363	A9F54 363	A9F55 363



4 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
1	A9F53 401	A9F54 401	A9F55 401
2	A9F53 402	A9F54 402	A9F55 402
4	A9F53 404	A9F54 404	A9F55 404
6	A9F53 406	A9F54 406	A9F55 406
10	A9F53 410	A9F54 410	A9F55 410
16	A9F53 416	A9F54 416	A9F55 416
20	A9F53 420	A9F54 420	A9F55 420
25	A9F53 425	A9F54 425	A9F55 425
32	A9F53 432	A9F54 432	A9F55 432
40	A9F53 440	A9F54 440	A9F55 440
50	A9F53 450	A9F54 450	A9F55 450
63	A9F53 463	A9F54 463	A9F55 463





iID Residual Current Circuit Breakers (A type)

2 Pole - 230-240V 50/60Hz

Rating Amps	10mA Part No.	30mA Part No.	300mA Part No.	300mA s Part No.
16	A9R20216	-	-	-
25	A9R20225	A9R21225	A9R24225	-
40	-	A9R21240	A9R24240	A9R25240
63	-	A9R21263	A9R24263	A9R25263
100	-	A9R21291	A9R24291	A9R25291

4 Pole - 400-415V 50/60Hz

Rating Amps	30mA Part No.	100mA Part No.	300mA Part No.	500mA Part No.	300mA s Part No.
25	A9R21425	-	A9R24425	-	-
40	A9R21440	A9R22440	A9R24440	A9R26440	A9R25440
63	A9R21463	-	A9R24463	A9R26463	A9R25463
80	A9R21480	A9R22463	A9R24480	-	A9R25480
100	A9R21491	-	A9R24491	A9R26491	A9R25491

Vigi iC60 add-on residual current devices (type A)

2 Pole - 230-240V, 400-415V 50/60Hz

Rating Amps	30mA Part No.	100mA Part No.	300mA Part No.
63	A9V02663 A9V01663*	A9V03663	A9V06663

*Except 110 V

2 Pole - 230-240V, 400-415V 50/60Hz

Rating Amps	30mA Part No.	100mA Part No.	300mA Part No.
63	A9V02763	-	A9V06763

Series IC60H - Accessories

Single Pole RCBO's TYPE C		
Rating (A)	Sensitivity mA	Part No.
6	30	A9D11806
	100	A9D12806
10	30	A9D11810
	100	A9D12810
16	30	A9D11816
	100	A9D12816
20	30	A9D11820
	100	A9D12820
32	30	A9D11832
	100	A9D12832
45	30	A9D11845
	100	A9D12845

Auxiliary Switches (OF)	
Description	Part No.
1 / Change over	A9A26924

Alarm Switch (SD)	
Description	Part No.
Alarm switch	A9A26927

Shunt Trips (MX)	
Voltage	Part No.
12-24V AC/DC	A9A26478
48V AC/DC	A9A26477
100-415V AC / 110-130V DC	A9A26476

Under Voltage Release (MN)	
Voltage	Part No.
230V AC	A9A26960

ACTI 9 Isobar Series

Type A single phase distribution.

125A Standard A Boards (Single Phase)	
Number of SP Ways	Part No.
6	SEA9AN6
10	SEA9AN10
14	SEA9N14
18	SEA9N18
27	SEA9N27

Switch Disconnectors for A Type			
Rating Amps	Voltage	No. Of Poles	Part No.
125	230 / 240V	2	SEA91252

Type B Three Phase Distribution Boards

250A Standard B Boards (Three Phase)	
Number of TP Outgoing Ways	Part No.
4	SEA9BN4
6	SEA9BN6
8	SEA9BN8
12	SEA9BN12
16	SEA9BN16
18	SEA9BN18
24	SEA9BN24

Switch Disconnectors for B Type			
Rating Amps	Voltage	No. Of Poles	Part No.
125	415V	3+N	SEA91253N
125	415V	4	SEA91254





Type B

Magnetic trip units operate between 3 and 5 In. Protection of electric heating. Protection of networks supplied by generators.

Type C

Magnetic trip units operate between 5 and 10 In. Protection of lighting circuits.

Type D

Magnetic trip units operate between 10 and 14 In. Protection of circuits that supply high inrush current loads: transformers, motors, etc.

Series IC120H (15kA)

15kA Breaking capacity to EN 60898, IEC60947-2.

IC120H MCB's provide high levels of current capacity, while maintaining a breaking capacity of 15kA.

Available with a wide range of add on earth leakage and control accessories, IC120H provides a physical replacement for the previous NC100 range of devices with B, C, and D type characteristics & 1 to 4 poles.

1 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
63	A9N18401	A9N18445	A9N18489
80	A9N18402	A9N18446	A9N18490
100	A9N18403	A9N18447	A9N18491
125	A9N18404	A9N18448	A9N18492

2 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
63	A9N18412	A9N18456	A9N18500
80	A9N18413	A9N18457	A9N18501
100	A9N18414	A9N18458	A9N18502
125	A9N18415	A9N18459	A9N18503

3 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
63	A9N18423	A9N18467	A9N18511
80	A9N18424	A9N18468	A9N18512
100	A9N18425	A9N18469	A9N18513
125	A9N18426	A9N18470	A9N18514

4 Pole

Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
63	A9N18434	A9N18478	A9N18522
80	A9N18435	A9N18479	A9N18523
100	A9N18436	A9N18480	A9N18524
125	A9N18437	A9N18481	A9N18525

Add On Residual Current Devices for use with VIGI IC120H MCB's

Tripped by sinusoidal AC currents whether they are quickly applied or rise slowly.

Class AC RCD's			
Voltage (A)	No. Of Poles	Sensitivity mA	Part No.
230...415	2	30	A9N18563
		300	A9N18564
		300*	A9N18544
		500	A9N18565
		1000*	A9N18545
	3	30	A9N18566
		300	A9N18567
		300*	A9N18546
		500	A9N18568
		1000*	A9N18547
	4	30	A9N18569
		300	A9N18570
300*		A9N18548	
500		A9N18571	
1000*		A9N18549	

* Provides discrimination with down stream device by introducing an intentional time delay. Down stream device must be instantaneous with a sensitivity of 1/2 the upstream

A class ensures tripping with a DC component current. Tripped by sinusoidal AC currents as well as by pulsed DC currents whether they are quickly applied or rise slowly.

Class A RCD's			
Voltage (A)	No. Of Poles	Sensitivity mA	Part No.
230...415	2	30	A9N18572
		300	A9N18573
		300*	A9N18581
		500	A9N18574
		500*	A9N18582
		1000*	A9N18583
	3	30	A9N18575
		300	A9N18576
		300*	A9N18584
		500	A9N18577
		500*	A9N18585
		1000*	A9N18586
	4	30	A9N18578
		300	A9N18579
		300*	A9N18587
		500	A9N18580
		500*	A9N18588
		1000*	A9N18589

* Provides discrimination with down stream device by introducing an intentional time delay. Down stream device must be instantaneous with a sensitivity of 1/2 the upstream

Provides continuity of supply on circuits with a disturbed supply network. Used where there is a high risk of nuisance tripping due to:

- Lightning strikes
- IT earthing systems
- Switched electronic ballasts Desensitised by:
- Harmonics or high frequencies
- DC components

Class SI RCD's			
Voltage (A)	No. Of Poles	Sensitivity mA	Part No.
230...415	2	30	A9N18591
		300	A9N18592
		300*	A9N18556
		500	A9N18593
		1000*	A9N18557
	3	30	A9N18594
		300	A9N18595
		300*	A9N18558
		500	A9N18596
		1000*	A9N18559
	4	30	A9N18597
		300	A9N18598
300*		A9N18560	
500		A9N18599	
1000*		A9N18561	





Accessories

- A changeover switch which acts as an indicating or control device to monitor the 'ON' and/or 'OFF' position of an MCB
- Mounted on LHS of the MCB

Auxiliary Switch (OF)

Description	Part No.
	A9N26924

- An indicating device which monitors the tripping of an MCB it can be fitted in conjunction with auxiliary switch
- Mounted on LHS of the MCB

Alarm Switch (SD)

Description	Part No.
Fault indicator switch	A9N26927

- Auxiliary switch
- Includes one auxiliary switch (OF)

Shunt Trip Release (MX)

Coil Voltage	Part No.
12-24V AC/DC	A9N26478
48V AC/DC	A9N26477
100-415V AC / 110-130V DC	A9N26476

Undervoltage Release (MN)

Coil Voltage	Part No.
220-240V AC	A9N26960

Padlocking Attachment

Description	Part No.
IC120 (set of 4)	27145
Padlocks with 2 keys	MGPL

5SY Miniature Circuit Breakers - 6kA/10kA

SIEMENS

PROTECTION DEVICES & SWITCHGEAR

1 Pole - 230/400V AC

Rating Amps	Poles	6kA	10kA
		Type C Part No.	Type D Part No.
0.5	1	5SY6105-7	5SY4105-8
1		5SY6101-7	5SY4101-8
1.6		5SY6115-7	5SY4115-8
2		5SY6102-7	5SY4102-8
3		5SY6103-7	5SY4103-8
4		5SY6104-7	5SY4104-8
6		5SY6106-7	5SY4106-8
8		5SY6108-7	5SY4108-8
10		5SY6110-7	5SY4110-8
13		5SY6113-7	5SY4113-8
16		5SY6116-7	5SY4116-8
20		5SY6120-7	5SY4120-8
25		5SY6125-7	5SY4125-8
32		5SY6132-7	5SY4132-8
40		5SY6140-7	5SY4140-8
50		5SY6150-7	5SY4150-8
63		5SY6163-7	5SY4163-8



2 Pole - 400V AC

Rating Amps	Poles	6kA	10kA
		Type C Part No.	Type D Part No.
0.5	2	5SY6205-7	5SY4205-8
1		5SY6201-7	5SY4201-8
1.6		5SY6215-7	5SY4215-8
2		5SY6202-7	5SY4202-8
3		5SY6203-7	5SY4203-8
4		5SY6204-7	5SY4204-8
6		5SY6206-7	5SY4206-8
8		5SY6208-7	5SY4208-8
10		5SY6210-7	5SY4210-8
13		5SY6213-7	5SY4213-8
16		5SY6216-7	5SY4216-8
20		5SY6220-7	5SY4220-8
25		5SY6225-7	5SY4225-8
32		5SY6232-7	5SY4232-8
40		5SY6240-7	5SY4240-8
50		5SY6250-7	5SY4250-8
63		5SY6263-7	5SY4263-8



3 Pole - 400V AC

Rating Amps	Poles	6kA	10kA
		Type C Part No.	Type D Part No.
0.5	3	5SY6305-7	5SY4305-8
1		5SY6301-7	5SY4301-8
1.6		5SY6315-7	5SY4315-8
2		5SY6302-7	5SY4302-8
3		5SY6303-7	5SY4303-8
4		5SY6304-7	5SY4304-8
6		5SY6306-7	5SY4306-8
8		5SY6308-7	5SY4308-8
10		5SY6310-7	5SY4310-8
13		5SY6313-7	5SY4313-8
16		5SY6316-7	5SY4316-8
20		5SY6320-7	5SY4320-8
25		5SY6325-7	5SY4325-8
32		5SY6332-7	5SY4332-8
40		5SY6340-7	5SY4340-8
50		5SY6350-7	5SY4350-8
63		5SY6363-7	5SY4363-8



Auxiliary Switches

Version	MW	Part No.
1 NO + 1 NC	1	5ST3010





Power Distribution Circuit Breakers

Tmax XT1 - Thermomagnetic

Model	Icu	Current (A)		3 Pole	4 Pole
		Ith/In	In	Part No.	Part No.
XT1C	25kA	160R25	25A	1SDA067391R1	1SDA067400R1
		160R32	32A	1SDA067392R1	1SDA067401R1
		160R40	40A	1SDA067393R1	1SDA067402R1
		160R50	50A	1SDA067394R1	1SDA067403R1
		160R63	63A	1SDA067395R1	1SDA067404R1
		160R80	80A	1SDA067396R1	1SDA067405R1
		160R100	100A	1SDA067397R1	1SDA067406R1
		160R125	125A	1SDA067398R1	1SDA067409R1
		160R160	160A	1SDA067399R1	1SDA067410R1
		XT1N	36kA	160R32	32A
160R40	40A			1SDA067412R1	1SDA067420R1
160R50	50A			1SDA067413R1	1SDA067421R1
160R63	63A			1SDA067414R1	1SDA067422R1
160R80	80A			1SDA067415R1	1SDA067423R1
160R100	100A			1SDA067416R1	1SDA067424R1
160R125	125A			1SDA067417R1	1SDA067427R1
160R160	160A			1SDA067418R1	1SDA067428R1

Tmax XT2 - Thermomagnetic

XT2N	36kA	160R32	32A	1SDA067013R1	1SDA067034R1		
		160R40	40A	1SDA067014R1	1SDA067035R1		
		160R50	50A	1SDA067015R1	1SDA067036R1		
		160R63	63A	1SDA067016R1	1SDA067037R1		
		160R80	80A	1SDA067017R1	1SDA067038R1		
		160R100	100A	1SDA067018R1	1SDA067039R1		
		160R125	125A	1SDA067019R1	1SDA067042R1		
		160R160	160A	1SDA067020R1	1SDA067043R1		
		XT2S	50kA	160R32	32A	1SDA067553R1	1SDA067574R1
				160R40	40A	1SDA067554R1	1SDA067575R1
160R50	50A			1SDA067555R1	1SDA067576R1		
160R63	63A			1SDA067556R1	1SDA067577R1		
160R80	80A			1SDA067557R1	1SDA067578R1		
160R100	100A			1SDA067558R1	1SDA067579R1		
160R125	125A	1SDA067559R1	1SDA067582R1				
160R160	160A	1SDA067560R1	1SDA067583R1				

Tmax XT3 - Thermomagnetic

XT3N	36kA	250R63	63A	1SDA068053R1	1SDA068060R1
		250R80	80A	1SDA068054R1	1SDA068061R1
		250R100	100A	1SDA068055R1	1SDA068062R1
		250R125	125A	1SDA068056R1	1SDA068067R1
		250R160	160A	1SDA068057R1	1SDA068068R1
		250R200	200A	1SDA068058R1	1SDA068069R1
		250R250	250A	1SDA068059R1	1SDA068070R1
		250R63	63A	1SDA068215R1	1SDA068222R1
		250R80	80A	1SDA068216R1	1SDA068223R1
		250R100	100A	1SDA068217R1	1SDA068224R1
XT3S	50kA	250R125	125A	1SDA068218R1	1SDA068229R1
		250R160	160A	1SDA068219R1	1SDA068230R1
		250R200	200A	1SDA068220R1	1SDA068231R1
		250R250	250A	1SDA068221R1	1SDA068232R1

Tmax XT4 - Electronic Release

Model	Icu	Type	In	3 Pole	4 Pole
				Part No.	Part No.
XT4N LS/I	36kA	160 Ekip LS/I	40A	1SDA068122R1	1SDA068142R1
			63A	1SDA068123R1	1SDA068144R1
			100A	1SDA068124R1	1SDA068145R1
			160A	1SDA068125R1	1SDA068146R1
T4N	320 PR221 DS-LS	160 Ekip LS/I	250A	1SDA068126R1	1SDA068147R1
			320A	1SDA054117R1	1SDA054121R1
XT4S LS/I	50kA	160 Ekip LS/I	40A	1SDA068471R1	1SDA068491R1
			63A	1SDA068472R1	1SDA068492R1
			100A	1SDA068473R1	1SDA068493R1
			160A	1SDA068474R1	1SDA068494R1
			250A	1SDA068475R1	1SDA068495R1
T4S	320 PR221 DS-LS		320A	1SDA054125R1	1SDA054129R1

Power Distribution Circuit Breakers

Tmax T5 - Thermomagnetic

Model	Icu	Current (A)			3 Pole	4 Pole
		Ith/In	In	%N	Part No.	Part No.
T5N TMA	36kA	400R320	320A	100	1SDA054436R1	1SDA054477R1
		400R400	400A		1SDA054437R1	1SDA054478R1
		630R500	500A		1SDA054456R1	1SDA054487R1
T5S TMA	50kA	400R320	320A	100	1SDA054440R1	1SDA054479R1
		400R400	400A		1SDA054441R1	1SDA054480R1
		630R500	500A		1SDA054461R1	1SDA054489R1

Tmax T5 - Electronic Release

Model	Icu	Type	In	3 Pole	4 Pole
				Part No.	Part No.
T5N LS/I	36kA	400 PR221DS-LS/1	320A	1SDA054316R1	1SDA054324R1
			400A	1SDA054317R1	1SDA054325R1
			630A	1SDA054396R1	1SDA054400R1
T5S LS/I	50kA	400 PR221DS-LS/1	320A	1SDA054332R1	1SDA054340R1
			400A	1SDA054333R1	1SDA054341R1
			630A	1SDA054404R1	1SDA054408R1

Tmax T6 - Thermomagnetic

Model	Icu	Current (A)			3 Pole	4 Pole
		Ith/In	In	%N	Part No.	Part No.
T6S TMA	36kA	630R630	630A	100	1SDA060202R1	1SDA060210R1
		800R800	800A		1SDA060214R1	1SDA060222R1
T6S TMA	50kA	630R630	630A	100	1SDA060204R1	1SDA060211R1
		800R800	800A		1SDA060216R1	1SDA060223R1

Tmax T6 - Electronic Release

Model	Icu	Type	In	3 Pole	4 Pole
				Part No.	Part No.
T6N LS/I	36kA	630 PR221DS-LS/1	630A	1SDA060226R1	1SDA060231R1
			800A	1SDA060268R1	1SDA060273R1
T6S LS/I	50kA	630 PR221DS-LS/1	630A	1SDA060236R1	1SDA060243R1
			800 PR221DS-LS/1	800A	1SDA060278R1

Tmax T7 - Electronic Release Toggle Operated

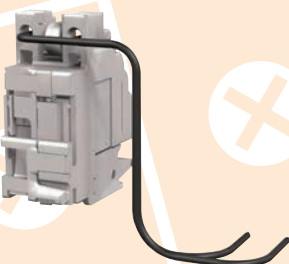
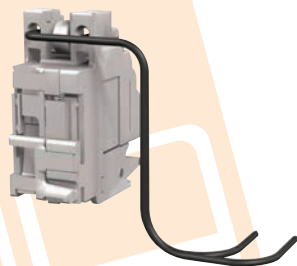
Model	Icu	Type	In	3 Pole	4 Pole
				Part No.	Part No.
T7S P-LS/I	50kA	800 PR231/P-LS/1	800A	1SDA061963R1	1SDA061973R1
			1000A	1SDA062738R1	1SDA062746R1
			1250A	1SDA062866R1	1SDA062874R1
			1600A	1SDA062994R1	1SDA063002R1

Tmax T7 - Electronic Release Pushbutton Operated

Model	Icu	Type	In	3 Pole	4 Pole
				Part No.	Part No.
T7S P-LS/I	50kA	800 PR231/P-LS/1	800A	1SDA061981R1	1SDA061989R1
			1000A	1SDA062754R1	1SDA062762R1
			1250A	1SDA062882R1	1SDA062890R1
			1600A	1SDA063010R1	1SDA063018R1

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Tmax XT1...XT4 & T1...T7 Accessories

Service Releases

Shunt Opening Release - SOR	Part No.
SOR-C XT1...XT4 F/P 12V DC	1SDA066321R1
SOR-C XT2-XT4 W 12V DC	1SDA066328R1
SOR-C XT1...XT4 F/P 24-30V AC/DC	1SDA066322R1
SOR-C XT2-XT4 W 24-30V AC/DC	1SDA066329R1
SOR-C XT1...XT4 F/P 48-60V AC/DC	1SDA066323R1
SOR-C XT2-XT4 W 48-60V AC/DC	1SDA066330R1
SOR-C XT1...XT4 F/P 110-127V AC / 110-125V DC	1SDA066324R1
SOR-C XT2-XT4 W 110-127V AC / 110-125V DC	1SDA066331R1
SOR-C XT1...XT4 F/P 220-240V AC / 220-250V DC	1SDA066325R1
SOR-C XT2-XT4 W 220-240V AC / 220-250V DC	1SDA066332R1
SOR-C XT1...XT4 F/P 380-440V AC	1SDA066326R1
SOR-C XT2-XT4 W 380-440V AC	1SDA066333R1
SOR-C XT1...XT4 F/P 480-525V AC	1SDA066327R1
SOR-C XT2-XT4 W 480-525V AC	1SDA066334R1
SOR-C T4-T5-T6 12V DC	1SDA054869R1
SOR-C T4-T5-T6 48-60V AC/DC	1SDA054871R1
SOR-C T4-T5-T6 110-127V AC / 110-125V DC	1SDA054872R1
SOR-C T4-T5-T6 220-240V AC / 220-250V DC	1SDA054873R1
SOR-C T4-T5-T6 380-440V AC	1SDA054874R1
SOR-CT4-T5-T6 480-500V AC	1SDA054875R1
Shunt Opening/Closing Release - SOR/SCR	Part No.
SOR/SCR T7-T7M-X1 24V AC/DC	1SDA062065R1
SOR/SCR T7-T7M-X1 30V AC/DC	1SDA062066R1
SOR/SCR T7-T7M-X1 48V AC/DC	1SDA062067R1
SOR/SCR T7-T7M-X1 60V AC/DC	1SDA062068R1
SOR/SCR T7-T7M-X1 110-120V AC/DC	1SDA062069R1
SOR/SCR T7-T7M-X1 240-250V AC/DC	1SDA062070R1
SOR/SCR T7-T7M-X1 380-400V AC	1SDA062071R1
SOR/SCR T7-T7M-X1 415-440V AC	1SDA062072R1
Undervoltage Release - UVA	Part No.
UVA-C XT2-XT4 W 24-30V AC/DC	1SDA066403A1
UVA-C XT1...XT4 F/P 48V AC/DC	1SDA069065A1
UVA-C XT2-XT4 W 48V AC/DC	1SDA069066A1
UVA-C XT1...XT4 F/P 60V AC/DC	1SDA066397A1
UVA-C XT2-XT4 W 60V AC/DC	1SDA066404A1
UVR-C XT1...XT4 F/P 110-127V AC / 110-125V DC	1SDA066398A1
UVR-C XT2-XT4 W 110-127V AC / 110-125V DC	1SDA066405A1
UVA-C XT1...XT4 F/P 220-240V AC / 220-250V DC	1SDA066399A1
UVA-C XT2-XT4 W 220-240V AC / 220-250V DC	1SDA066406A1
UVA-C XT1...XT4 F/P 380-440V AC	1SDA066400A1
UVA-C XT2-XT4 W 380-440V AC	1SDA066407A1
UVA-C XT1...XT4 F/P 480-525V AC	1SDA066401A1
UVR-C XT2-XT4 W 480-525V AC	1SDA066408A1
UVA-C T4-T5-T6 24-30V AC/DC	1SDA054887A1
UVA-C T4-T5-T6 48V AC/DC	1SDA054888A1
UVA-CT4-T5 -T6 60V AC/DC	1SDA054889A1
UVA -C T4-T5-T6 110-127V AC / 110-125V DC	1SDA054890A1
UVA-C T4-T5-T6 220-250V AC/DC	1SDA054891R1
UVA-C T4-T5-T6 380-440V AC	1SDA054892A1
UVA-C T4-T5-T6 480-500V AC	1SDA054893A1
UVA T7-T7M-X1 24V AC/DC	1SDA062087R1
UVA T7-T7M-X1 30V AC/DC	1SDA062088A1
UVA T7-T7M-X1 48V AC/DC	1SDA062089A1
UVAT7-T7M-X160V AC/DC	1SDA062090A1
UVA T7-T7M-X1 110-120V AC/DC	1SDA062091A1
UVA T7-T7M-X1 240-250V AC/DC	1SDA062092A1
UVA T7-T7M-X1 380-400V AC	1SDA062093A1
UVAT7-T7M-X1415-440V AC	1SDA062094A1

Tmax XT1...XT4 & T1...T7 Accessories

Rotary Handle Operating Mechanism

Breaker	Direct - RH D	Part No.
XT1-XT3	RHD Standard for fixed and plug-in	1SDA066475R1
	RHD Emergency for fixed and plug-in	1SDA066477R1
XT2-XT4	RHD Standard wrth-drawable	1SDA066476R1
	RHD Emergency with-drawable	1SDA066478R1
T4-T5	RHD Standard for fixed and plug-in	1SDA054926R1
	RHD Emergency for fixed and plug-in	1SDA054927R1
	RHD Standard with-drawable	1SDA054928R1
T6	RHD Emergency with-drawable	1SDA055234R1
	RHD Standard for fixed and plug-in	1SDA060405R1
	RHD Emergency for fixed and plug-in	1SDA060406R1
T7	RHD Standard with-drawable	1SDA060407R1
	RHD Emergency with-drawable	1SDA060408R1
	RHD Standard for fixed and plug-in	1SDA062120R1
Toggle operated	RHD Emergency for fixed and plug-in	1SDA062121R1
	RHD Standard with-drawable	1SDA062120R1
	RHD Emergency with-drawable	1SDA062121R1
Breaker	Door Mounted Extended - RHE	Part No.
XT1-XT3	RHE Standard for fixed and plug-in	1SDA066479R1
	RHE Emergency for fixed and plug-in	1SDA066481R1
XT2-XT4	RHE Standard with-drawable	1SDA066480R1
	RHE Emergency with-drawable	1SDA066482R1
T4-T5	RHE Standard for fixed and plug-in	1SDA054929R1
	RHE Emergency for fixed and plug-in	1SDA054930R1
	RHE Standard with-drawable	1SDA054933R1
T6	RHE Emergency with-drawable	1SDA054934R1
	RHE Standard for fixed and plug-in	1SDA060409R1
	RHE Emergency for fixed and plug-in	1SDA060410R1
T7	RHE Standard with-drawable	1SDA060411R1
	RHE Emergency with-drawable	1SDA060412R1
	RHE Standard for fixed and plug-in	1SDA062122R1
Pushbutton operated	RHE Emergency for fixed and plug-in	1SDA062123R1
	RHE Standard with-drawable	1SDA062122R1
	RHE Emergency with-drawable	1SDA062123R1

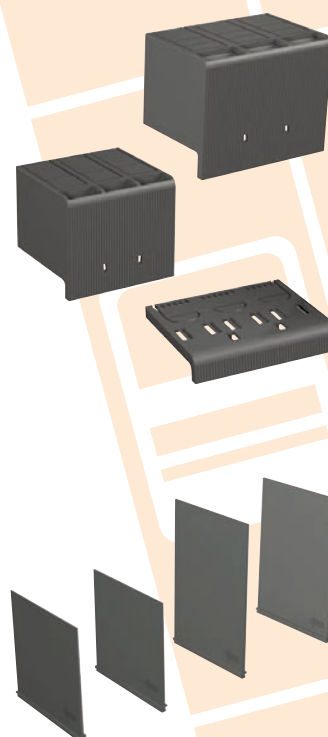
Residual Current Devices

Description	Part No.
RC Sel x XT1 3P F	1SDA067123R1
RC Sel x XT1 4P F	1SDA067125R1
RC Sel x XT2 4P F	1SDA067126R1
RC Sel x XT3 3P F	1SDA067128R1
RC Sel x XT3 4P F	1SDA067130R1
RC Sel x XT4 4P F	1SDA067131R1
RC 222/5 for T5 4P F	1SDA054955R1

Shrouds & Terminals

High Shields	Part No.
XT1 3P High terminal shields (Pair) - HTC	1SDA066664R1
XT1 4P High terminal shields (Pair) - HTC	1SDA066665R1
XT2 3P High terminal shields (Pair) - HTC	1SDA066666R1
XT2 4P High terminal shields (Pair) - HTC	1SDA066667R1
XT3 3P High terminal shields (Pair) - HTC	1SDA066668R1
XT3 4P High terminal shields (Pair) - HTC	1SDA066669R1
XT4 3P High terminal shields (Pair) - HTC	1SDA066670R1
XT4 4P High terminal shields (Pair) - HTC	1SDA066671R1
T5 3P High terminal shields (Pair)	1SDA054960R1
T5 4P High terminal shields (Pair)	1SDA054961R1
T6 3P High terminal shields (Pair)	1SDA014040R1
T6 4P High terminal shields (Pair)	1SDA014041R1
T7/T7M 3P High terminal shields (Pair)	1SDA063091R1
T7/T7M 4P High terminal shields (Pair)	1SDA063092R1
Low Shields	Part No.
XT1 3P Low terminal shields (Pair) - HTC	1SDA066655R1
XT1 4P Low terminal shields (Pair) - HTC	1SDA066656R1
XT2 3P Low terminal shields (Pair) - HTC	1SDA066657R1
XT2 4P Low terminal shields (Pair) - HTC	1SDA066659R1
XT3 3P Low terminal shields (Pair) - HTC	1SDA066660R1
XT3 4P Low terminal shields (Pair) - HTC	1SDA066661R1
XT4 3P Low terminal shields (Pair) - HTC	1SDA066662R1
XT4 4P Low terminal shields (Pair) - HTC	1SDA066663R1
T5 3P Low terminal shields (Pair)	1SDA054968R1
T5 4P Low terminal shields (Pair)	1SDA054969R1
T6 3P Low terminal shields (Pair)	1SDA014038R1
T6 4P Low terminal shields (Pair)	1SDA014039R1
T7/T7M 3P Low terminal shields (Pair)	1SDA063093R1
T7/T7M 4P Low terminal shields (Pair)	1SDA063094R1
Phase Barriers	Part No.
PB100 T4-5-T7-X1 3P Part DIV. PHA. Low	1SDA054970R1
PB100 T4-5-T7-X1 4P Part DIV. PHA. Low	1SDA054971R1
PB200 T4-5-7-T7M-X1 3P Part DIV. PHA. High	1SDA054972R1
PB200 T4-5-7-T7M-X1 4P Part DIV. PHA. High	1SDA054973R1

ABB



MOELLER



An Eaton Brand



NZM Moulded Case Circuit Breakers

Moeller's new NZM 1 and 2 moulded case circuit breakers offer a uniquely uniform approach to mounting, operation, switching and accessories helping you to save time and money.

- Common base plate on all rotary handles for faster installation
- 2 switches with switching levels from 25kA – 150kA
- Compact size saves panel space
- Toggle actuator or rotary option
- Identical operation, function, mounting and fitting for each frame size
- Standard mounting spacers for user-friendly installation
- Uniform range of auxiliary contacts and releases with simple screw or spring-loaded connection

Protection of Systems / Cables (Thermomagnetic)

Breaking Capacity	Amps	3 Pole Part No.
25kA	40	NZMB1-A40
	50	NZMB1-A50
	63	NZMB1-A63
	80	NZMB1-A80
	100	NZMB1-A100
	125	NZMB2-A125
	160	NZMB2-A160
50kA	200	NZMB2-A200
	250	NZMB2-A250
	40	NZMN1-A40
	50	NZMN1-A50
	63	NZMN1-A63
	80	NZMN1-A80
	100	NZMN1-A100
100kA	125	NZMN2-A125
	160	NZMN2-A160
	200	NZMN2-A200
	250	NZMN2-A250
	40	NZMH1-A40
	50	NZMH1-A50
	63	NZMH1-A63
	80	NZMH1-A80
	100	NZMH1-A100
	125	NZMH2-A125
	160	NZMH2-A160
	200	NZMH2-A200
	250	NZMH2-A250

4 pole versions available on request.

Selective / Generator Protection (Electronic)

Breaking Capacity	Amps	3 Pole Part No.
50kA	100	NZMN2-VE100
	160	NZMN2-VE160
	250	NZMN2-VE250
150kA	100	NZMH2-VE100
	160	NZMH2-VE160
	250	NZMH2-VE250

4 pole versions available on request.

Auxiliary Contacts

Type	Contact Arrangement	Part No.
Auxiliary break contact	1 NC	M22-K01
Auxiliary make contact	1 NO	M22-K10
Early-make Aux. contact		NZM1-XHIV
		NZM2/3-XHIV

Accessories

Rotary Handles

Type	For	Description	Part No.
Door coupling rotary handle	NZM1	lockable on handle & switch	NZM1-XTVDV
		lockable	NZM1-XTVD
		red-yellow	NZM1-XTVDVR
	NZM2	lockable on handle & switch	NZM2-XTVDV
		lockable	NZM2-XTVD
		red-yellow	NZM2-XTVDVR
Rotary handle	NZM1	lockable on handle & switch	NZM1-XDV
		lockable on handle	NZM1-XDTV
		red-yellow, lockable	NZM1-XDVR
	NZM2	red-yellow, lockable on handle	NZM1-XDTVR
		lockable on handle & switch	NZM2-XDV
		lockable on handle	NZM2-XDTV
		red-yellow, lockable	NZM2-XDVR
		red-yellow, lockable on handle	NZM2-XDTVR

Ancillaries

Description	Part No.	
Extension shaft	600mm maximum depth	NZM1/2-XV6
	400mm maximum depth	NZM1/2-XV4
Mounting spacers	NZM1/2-XAB	
Toggle locking device	NZM1-XKAV	
	NZM2/3-XKAV	

Remote Operators

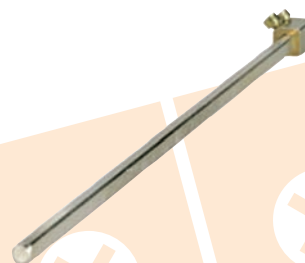
Description	Part No.
24/30V DC	NZM2-XR24-30DC
48/60V DC	NZM2-XR48-60DC
220/250V DC	NZM2-XR220-250DC
110/130V AC	NZM2-XR110-130AC
208/240V AC	NZM2-XR208-240AC

Shunt Releases

For	Part No.
12V AC/DC	NZM1-XA12AC/DC
24V AC/DC	NZM1-XA24AC/DC
48V AC/DC	NZM1-XA48AC/DC
110/130V AC/DC	NZM1-XA110-130AC/DC
208/250V AC/DC	NZM1-XA208-250AC/DC
380/440V AC/DC	NZM1-XA380-440AC/DC
12V AC/DC	NZM2/3-XA12AC/DC
24V AC/DC	NZM2/3-XA24AC/DC
48V AC/DC	NZM2/3-XA48AC/DC
110/130V AC/DC	NZM2/3-XA110-130AC/DC
208/250V AC/DC	NZM2/3-XA208-250AC/DC
380/440V AC/DC	NZM2/3-XA380-440AC/DC

Under Voltage Releases

For	Part No.
12V DC	NZM1-XU12DC
24V DC	NZM1-XU24DC
208-250V AC	NZM1-XU208-240AC
380-440V AC	NZM1-XU380-440AC
12V DC	NZM2/3-XU12DC
24V DC	NZM2/3-XU24DC
110-240V AC	NZM2/3-XU110-240AC
208-250V AC	NZM2/3-XU208-240AC
380-440V AC	NZM2/3-XU380-440AC





Compact - MCCB's For Powerpact 4 Panel Boards

3 & 4 Pole

Types	Breaking Capacity	Amps	3 Pole Version	4 Pole Version
			Part No.	Part No.
NSX16...630	36kA	16	MGP0163X	MGP0164X
		25	MGP0253X	MGP0254X
		32	MGP0323X	MGP0324X
		40	MGP0403X	MGP0404X
		63	MGP0633X	MGP0634X
		80	MGP0803X	MGP0804X
		100	MGP1003X	MGP1004X
		125	MGP1253X	MGP1254X
		160	MGP1603X	MGP1604X
		200	MGP2003X	MGP2004X
		250	MGP2503X	MGP2504X
		400	MGP4003X	MGP4004X
		630	MGP6303X	MGP6304X

Accessories

Terminal Shields

For	Poles	Part No.
16...250A	3	LV429517
	4	LV429518
40/630A	3	LV432593
	4	LV432594

Auxiliary Switch

For	Contact Arrangement	Part No.
NSX16...630	1 CO	LV429450

Under Voltage Releases

For	Voltage	Part No.
NSX16...630	200/240V AC	LV429407
	380/415V AC	LV429408

Shunt Trip

For	Voltage	Part No.
NSX16...630	200/240V AC	LV429387
	380/415V AC	LV429388

Rotary Handles with Inbuilt Padlocking Facilities

For	Description	Voltage	Part No.
NSX16...630	Standard	Upto 250A	LVA429337
		400/630A	LVA432597
	Red handle on yellow frame	Upto 250A	LVA429339
		400/630A	LVA432599

Locking

For	Description	Voltage	Part No.
NSX16...630	Removable	250A	29370
		630A	29370
		800A	44936
	Fixed	250A	LV429371
		630A	LV432631
		800A	LV432631

4

PANEL PRODUCTS

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Pilot Devices - Compact 22mm Series

Pushbuttons

Type	Characteristic	NO	NC	Part No.	
Flush	Green	1	-	1SFA619100R1012	
	Yellow	1	-	1SFA619100R1013	
	Blue	1	-	1SFA619100R1014	
	Black	1	-	1SFA619100R1016	
	Green	2	-	1SFA619100R1022	
	Black	2	-	1SFA619100R1026	
	Red	-	1	1SFA619100R1041	
	Black	-	1	1SFA619100R1046	
	Red	1	1	1SFA619100R1071	
	Green	1	1	1SFA619100R1072	
	Yellow	1	1	1SFA619100R1073	
	Blue	1	1	1SFA619100R1074	
	Raised	Red	-	1	1SFA619102R1041
			-	1	1SFA619500R1041
Emergency stop	30mm Stop twist release	-	2	1SFA619500R1051	
		1	1	1SFA619500R1071	
	40mm Stop twist release	-	1	1SFA619550R1041	
		-	2	1SFA619550R1051	
		1	1	1SFA619550R1071	
	40mm Stop key release	-	2	1SFA619552R1051	
	1	1	1SFA619552R1071		

Selector Switches

Type	No. of Positions	Action	Function	NO	NC	Part No.
Short Handle Switch	2	Maintained	BC	1	-	1SFA619200R1016
			BC	2	-	1SFA619200R1026
			BC	1	1	1SFA619200R1076
			AC	1	-	1SFA619201R1016
			AC	2	-	1SFA619201R1026
			AC	-	1	1SFA619201R1046
	3	Spring return	AC	1	1	1SFA619201R1076
			BC	2	-	1SFA619202R1026
			BC	1	1	1SFA619202R1076
			ABC	2	-	1SFA619210R1026
			ABC	1	1	1SFA619210R1076
			A-B-C	2	-	1SFA619211R1026
			AB-C	2	-	1SFA619212R1026
			AB-C	1	1	1SFA619212R1076

Pilot Lights

Type	Characteristic	Part No.	
Pilot light heads	Red	1SFA619402R1001	
	Green	1SFA619402R1002	
	Yellow	1SFA619402R1003	
	Blue	1SFA619402R1004	
	White	1SFA619402R1005	
	Clear	1SFA619402R1008	
	Pilot light heads (Integrated LED)	Red	1SFA619403R5021
		Green	1SFA619403R5022
		Yellow	1SFA619403R5023
		Blue	1SFA619403R5024
		Clear	1SFA619403R5028
		Red	1SFA619403R5131
		Green	1SFA619403R5132
		Yellow	1SFA619403R5133
Clear		1SFA619403R5138	
Red		1SFA619403R5151	
Green		1SFA619403R5152	
Yellow		1SFA619403R5153	
Clear		1SFA619403R5158	
230V AC		Red	1SFA619403R5231
	Green	1SFA619403R5232	
	Yellow	1SFA619403R5233	
	Blue	1SFA619403R5234	
	Clear	1SFA619403R5238	

Pushbutton Enclosures

Type	Part No.
Compact enclosure 1 Hole - Yellow	1SFA619821R1000
Compact enclosure E-Stop	1SFA619821R1001
Compact enclosure E-Stop With shroud	1SFA619821R2001
E-Stop Shroud with compact enclosure	1SFA619920R8053
CP1-10W-10 Compact pushbutton	1SFA619100R1015
C2SS1-10R-20 Compact selector switch	1SFA619200R1021

Pilot Devices - Modular 22mm Series

Pushbuttons

Type	Characteristic	Part No. Plastic	Part No. Metal	
Flush	Non illuminated	1SFA611100R100 <input type="checkbox"/>	1SFA611100R300 <input type="checkbox"/>	
	Illuminated	Red	1SFA611100R1101	1SFA611100R3001
		Green	1SFA611100R1102	1SFA611100R3002
		Yellow	1SFA611100R1103	1SFA611100R3103
		White	1SFA611100R1105	1SFA611100R3105
Raised	Non illuminated	Red	1SFA611102R1001	1SFA611102R3001
Double Function	Non illuminated	Green/Red	1SFA611130R1106	
	Illuminated	Green/Red	1SFA611131R1102	
Mushroom	Non illuminated	Red	40mm 60mm	1SFA611124R1001
	Non latching	Red	60mm	1SFA611125R1001

Selector Switches

Type	No. of Position	Action	Maintained Positions	Part No. Plastic	Part No. Metal
Short Handle	2		Maintained B-C	1SFA611200R1006	1SFA611200R3006
			Spring return C-B	1SFA611202R1006	1SFA611202R3006
	3		Maintained A-B-C	1SFA611210R1006	1SFA611201R3006
			Spring return A-B/C-B	1SFA611211R1006	1SFA611211R3006

Key Switches

Type	No. of Position	Action	Key Removal	Part No. Plastic	Part No. Metal
Key Operated	2		Maintained B-C	1SFA611280R1001	1SFA611280R3001
			Maintained B	1SFA611281R1001	1SFA611281R3001
			Spring return B	1SFA611282R1001	1SFA611282R3001
	3		Maintained A-B-C	1SFA611283R1001	1SFA611283R3001
			Maintained B	1SFA611284R1001	1SFA611284R3001
			Spring return B	1SFA611285R1001	1SFA611285R3001

Pilot Lights

Type	Characteristic	Part No. Plastic
Pilot light heads	Red	1SFA611400R1001
	Green	1SFA611400R1002
	Yellow	1SFA611400R1003
	Blue	1SFA611400R1004
	White	1SFA611400R1005
	Clear	1SFA611400R1008
Emergency stop twist to release	E-Stop 40mm	1SFA611523R1001

Contact Blocks

Type	NO	NC	Part No.
5 Block holder			1SFA611601R1100
3 Block holder			1SFA611605R1100
3 Block holder +	1	-	1SFA611605R1101
	2	-	1SFA611605R1102
	-	1	1SFA611605R1110
	1	1	1SFA611605R1111
	-	2	1SFA611605R1120
Contact block	1	-	1SFA611610R1001
	-	1	1SFA611610R1010
	2	-	1SFA611610R1002
Double contact block	1	1	1SFA611610R1011
	-	2	1SFA611610R1020

ABB



Part No. Completion
When ordering complete the Part No. by adding the following:-

Pushbuttons	
Colour	Code
Red	1
Green	2
Yellow	3
Blue	4
White	5
Black	6



Pilot Light Heads - Integrated LED

Lamp Blocks

Type	Characteristic	Colour	Part No.
24V AC/DC		Red	1SFA611621R1011
		Green	1SFA611621R1012
		Yellow	1SFA611621R1013
		Blue	1SFA611621R1014
Pilot light heads (Integrated LED)	100 - 130V AC	Clear	1SFA611621R1015
		Red	1SFA611621R1041
		Green	1SFA611621R1042
		Yellow	1SFA611621R1043
230V AC		Clear	1SFA611621R1045
		Red	1SFA611621R1071
		Green	1SFA611621R1072
		Yellow	1SFA611621R1073
		Blue	1SFA611621R1074
		Clear	1SFA611621R1075

Enclosures & Accessories

Type	Characteristics	Part No.
Empty grey enclosure	1 Hole	1SFA611811R1000
	2 Hole	1SFA611812R1000
	3 Hole	1SFA611813R1000
	4 Hole	1SFA611814R1000
Empty yellow enclosure	1 Hole	1SFA611821R1000
Mounting tool	New modular	1SFA611920R8015
Emergency stop shroud	Modular	1SFA611920R8053
Blanking plug	Black	1SFA611920R8130
	Holder - Black	1SFA616920R8120
Legend plate	Insert - No text	1SFA616920R8121
	Holder for plastic enclosures	1SFA611930R1060
	Insert for plastic enclosures	1SFA611930R1061

Contact Blocks for Enclosures

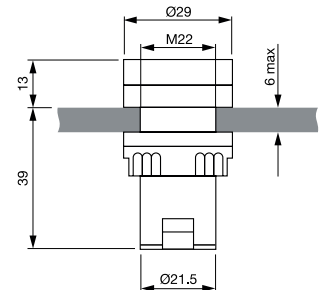
NO	NC	Part No.
1	0	1SFA611610R2001
0	1	1SFA611610R2010
2	0	1SFA611610R2002
0	2	1SFA611610R2020
1	1	1SFA611610R2011

LED Indicator Lamps

A range of 22mm indicator lamps used in electrical circuits in a variety of voltages. They are primarily used for indication and alarm signals and conform to IEC60947-5-1. The AD56DS utilize LEDs for long life and very low energy consumption and have concealed terminals.

Technical Specification

Operating Temperature:	-5...+40°C
Operating Humidity:	45...85% RH
Pollution Degree:	3
Installation Degree:	III
Degree of Protection:	IP65
Rated Operating Current:	≤80mA
Electrical Life:	≥30000 hours
Brightness:	≥60



LED Lamps

Colour	24V AC Part No.	230V Part No.	110V Part No.
Blue	AD56DS-B-24	AD56DS-B-220	AD56DS-B-110
Green	AD56DS-G-24	AD56DS-G-220	AD56DS-G-110
Red	AD56DS-R-24	AD56DS-R-220	AD56DS-R-110
White	AD56DS-W-24	AD56DS-W-220	AD56DS-W-110
Yellow	AD56DS-Y-24	AD56DS-Y-220	AD56DS-Y-110

LED Test Lamps

Colour	24V AC Part No.	230V Part No.	110V Part No.
Blue	AD56LT-B-24	AD56LT-B-220	AD56LT-B-110
Green	AD56LT-G-24	AD56LT-G-220	AD56LT-G-110
Red	AD56LT-R-24	AD56LT-R-220	AD56LT-R-110
White	AD56LT-W-24	AD56LT-W-220	AD56LT-W-110
Yellow	AD56LT-Y-24	AD56LT-Y-220	AD56LT-Y-110

03 Series - IP40

Pushbuttons and illuminated pushbuttons with a bezel size of 24 x 48mm.

Pushbutton & Pilot Lights - IP40

Type	Switching Action	Contacts	Non-illuminated	illuminated
			Part No.	Part No.
Pushbutton	Momentary action	1 CO	03-611.011	03-616.011
		2 CO	03-612.011	03-617.011
	Maintained action	1 CO	03-613.011	03-618.011
		2 CO	03-614.011	03-619.011
Indicator pilot light				03-021.001

Pushbuttons & Indicator Pilot Lights are fitted with two independent lamp bases. Bezel/Lens/LED required.

Accessories

Type	Colour	Part No.
One-Part lens	Blue	03-901.6
	Green	03-901.5
	Orange	03-901.3
	Red	03-901.2
	White	03-901.9
	Yellow	03-901.4
	Black/opaque	03-901.0
LED lamps 24V AC/DC	Green	10-2K12.1075
	Red	10-2K12.1072
	Yellow	10-2K12.1074
	Blue	10-2K12.1076
	White	10-2K12.1079
Front bezel flat	Black	03-965.0
Protective cover	Transparent	03-925
Spray proof cover		03-924

04 Series - IP65

A modular switching system for 22.5mm mounting holes.

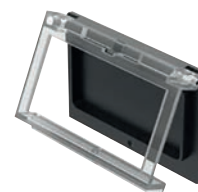
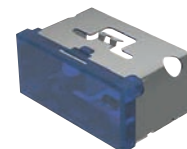
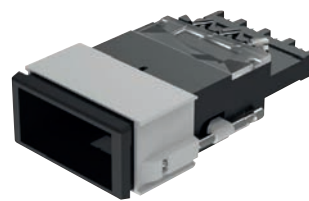
Pushbutton

Type	Characteristic	Size (ø mm)	Front Ring / Bezel	Part No.	
Pushbutton actuator	Momentary action	22.5	Aluminium	704.012.	<input type="checkbox"/>
			Black plastic	704.009.	<input type="checkbox"/>
			Grey plastic	704.010.	<input type="checkbox"/>
Illuminated pushbutton	Momentary action	22.5	Aluminium	704.032.	<input type="checkbox"/>
			Black plastic	704.029.	<input type="checkbox"/>
			Grey plastic	704.030.	<input type="checkbox"/>
Emergency stop - twist release IEC60947.5	Maintained action	40mm	Plastic	704.064.2	<input type="checkbox"/>
				704.075.2	<input type="checkbox"/>

Selector Switches - IP65

Type	No. of Position	Action	Aluminium	Plastic
			Part No.	Part No.
Short handle	2	Maintained	704.411.0	704.410.0
		Maintained	704.403.0	704.402.0
	3	Spring return	704.405.0	704.404.0
Long handle	2	Maintained	704.101.0	704.100.0
		Maintained	704.093.0	704.092.0
	3	Spring return	704.095.0	704.094.0

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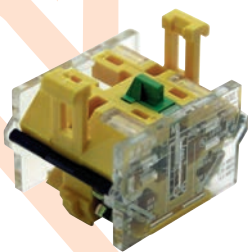
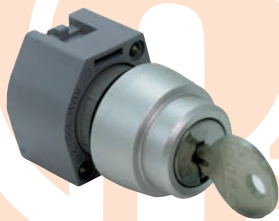


Part No. Completion
When ordering complete the Part No. by adding the following:-







Pushbuttons

Colour	Code
Red	2
Green	5
Yellow	4
Blue	6
Clear	7

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Key Switches

Type	No. of Positions	Action	Key Removal	Aluminium	Plastic
				Part No.	Part No.
Key operated	2	 Maintained	II	704.120.0	704.340.0
		 Maintained	I	704.121.0	704.341.0
		 Maintained	I - II	704.122.0	704.342.0
Key operated	3	 Maintained	0	704.114.0	704.344.0
		 Maintained	I - II	704.116.0	
		 Spring return	0	704.115.0	704.345.0

Contact Block

Type	NO	NC	Part No.
Snap action	-	1	704.900.2
	1	1	704.900.5
	1	-	704.900.1
	-	2	704.900.4
	2	-	704.900.3
Slow make (use with emergency stop)	-	1	704.910.2
	1	1	704.910.5
	1	-	704.910.1
	-	2	704.910.4
	2	-	704.910.3

Accessories

Type	Characteristic	Part No.
Protective cover for pushbuttons		704.925.0
Protective front ring	Aluminium anodised with transparent silicone membrane	704.600.3

Pilot Lights

Type	Characteristic	Part No.	<input type="checkbox"/>
Full face illumination	Grey plastic	704.000.	<input type="checkbox"/>
	Black plastic	704.006.	<input type="checkbox"/>
Front illumination	Grey plastic	704.002.	<input type="checkbox"/>

Accessories

Type	Socket	Characteristic	Part No.	
Lamp transformer units		115/24V AC	704.970.3	
		230/24V AC	704.970.4	
Flasher element		24V DC	704.943.5	
		6V AC/DC/200mA	10-1406.1369	
Filament lamp Ba9	Ba9s	12V AC/DC/100mA	10-1406.1329	
		24V AC/DC/50mA	10-1412.1279	
		110V AC/DC/22mA	10-1422.1179	
		130V AC/DC/20mA	10-1424.1179	
			Red	10-2512.1142
Single LED	Ba9s	24V AC/DC	Yellow	10-2512.1144
			Green	10-2512.1145
			Blue	10-2512.1146
			White	10-2512.1149

Other voltage LEDs available on request.

Part No. Completion
When ordering complete the Part No. by adding the following:-



Pushbuttons

Colour	Code
Red	2
Green	5
Yellow	4
Blue	6
Clear	7

04 Series Flush Mount

A modular switching system for 30.5mm mounting holes. IP65 Sealed.

Pushbutton				
Type	Characteristic	Front Ring / Bezel	Part No.	
Pushbutton actuator	Momentary action	Aluminium	704.012.	□ 18
	Maintained action	Aluminium	704.042.	□ 18
Illuminated pushbutton	Momentary action	Aluminium	704.032.	□ 18
	Maintained action	Aluminium	704.062.	□ 18

Selector Switches					
Type	No. of Position	Action	Front Ring / Bezel	Part No.	
Short handle	2		Maintained	Aluminium	704.411.018
	3		Maintained	Aluminium	704.403.018

Contact Blocks		
NO	NC	Part No.
1	0	704.900.1
0	1	704.900.2
2	0	704.900.3
0	2	704.900.4
1	1	704.900.5

61 Series Flush Mount

Flush mount switches 250V AC, 5A switches IP65 sealed

Illuminated Pushbuttons				
Bezel Shape	Actuator Function	Terminal	Size (mm)	Part No.
Square	Momentary	Solder	24x24	61-1100.0
	Maintained			61-1200.0
Rectangle	Indicator		24x30	61-0000.02

Front Bezel-Set			
Bezel Shape	Material	Size (mm)	Part No.
Round	Aluminium	22.5	61-9933.0
		22.5	61-9933.10
Square	Black plastic	24x24	61-9930.0
Rectangular		24x30	61-9931.0

Lens Illuminative			
Bezel Shape	Colour	Size (mm)	Part No.
Round	Red	19.7	61-9642.2
	Yellow	19.7	61-9642.4
	Green	19.7	61-9642.5
Square	Red	18x18	61-9671.2
	Yellow	18x18	61-9671.4
	Green	18x18	61-9671.5
Rectangular	Red	18x24	61-9681.2
	Yellow	18x24	61-9681.4
	Green	18x24	61-9681.5

Order Button/Bezel/Lens/Lamp for complete unit.



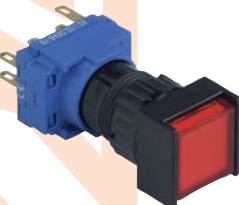
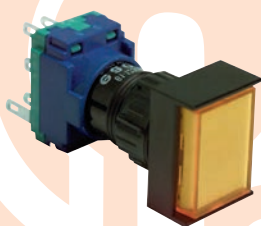
□ Part No. Completion
When ordering complete the Part No. by adding the following:-

Pushbuttons	
Colour	Code
Red	2
Green	5
Yellow	4
Blue	6
Clear	7



Complete Switch consists of	
Series 61 Flush Mount	
_____	Lens
_____	Actuator
_____	Flush Bezel
_____	Contact Block
Series 61 Raised	
_____	Lens
_____	Actuator
_____	Contact Block

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61 Series - Raised

Raised switches 16mm mounted 250V AC, 5A switches IP65 sealed.

Illuminated Pushbuttons / Emergency Stop

Shape	Actuator Function	Size (mm)	Part No.
Round	Momentary	18	61-1110.0
	Maintained		61-1210.0
	Indicator		61-0010.02
Square	Momentary	18x18	61-1120.0
	Maintained		61-1220.0
	Indicator		61-0020.02
Rectangle	Momentary	18x24	61-1130.0
	Maintained		61-1230.0
	Indicator		61-0030.02
Round	Emergency stop (with arrows) Twist release	27	61-3440.4/1
	Emergency stop (marked STOP) EN418 Twist release		61-3440.4/2

Lens (Raised Mounting)

Lens Shape	Colour	Lens Size (Approx) mm	Part No.
Round	Red	15.8	61-9311.2
	Yellow	15.8	61-9311.4
	Green	15.8	61-9311.5
Square	Red	15.3 x 15.3	61-9321.2
	Yellow	15.3 x 15.3	61-9321.4
	Green	15.3 x 15.3	61-9321.5
Rectangle	Red	21.5 x 15.3	61-9331.2
	Yellow	21.5 x 15.3	61-9331.4
	Green	21.5 x 15.3	61-9331.5

Contact Block Series 61

Type	Contact		Illuminated	Mounting	Part No.
	NO	NC			
Snap action gold	1	0	Yes	Plug-In 2.8mm	61-8410.22
	2	0	Yes	Plug-In 2.8mm	61-8420.22
	1	1	Yes	Plug-In 2.8mm	61-8470.22
Snap action silver	1	0	Yes	Plug-In 2.8mm	61-8410.12
	2	0	Yes	Plug-In 2.8mm	61-8420.12
	1	1	Yes	Plug-In 2.8mm	61-8470.12
Slow make silver	1	0	Yes	Screw Terminal	61-8610.11
	2	0	No	Screw Terminal	61-8625.11
	1	1	No	Screw Terminal	61-8675.11
Emergency Stop Contact Block					
Slow make silver	0	1		Solder 2.8mm	61-8745.17
	1	1		Solder 2.8mm	61-8755.17
	0	1		Screw Terminal	61-8745.11
	1	1		Screw Terminal	61-8775.11

Lamps / LEDs

Function	Voltage / Current	Colour	Base Style	Part No.
Lamp	14V/80mA 28V/40mA	White	T1¾	10-1310.1319
		White	T1¾	10-1313.1249
		Red	T1¾	10-2J12.1062
Single LED	24V AC/DC	Yellow	T1¾	10-2J12.1064
		Green	T1¾	10-2J12.1065
		White	T1¾	10-2J12.3139

Accessories

Description	Part No.
Emergency stop label	61-9970.2
Lens remover for raised switches	02-905
Lens remover for flush switches	61-9730.0
Lamp / LED remover	61-9740.0
Contact block removal tool	61-9711.0

Order Button/Bezel/Lens/Lamp for complete unit.

Complete Switch consists of

Series 61 Flush Mount

- _____ Lens
- _____ Actuator
- _____ Flush Bezel
- _____ Contact Block

Series 61 Raised

- _____ Lens
- _____ Actuator
- _____ Contact Block

61 Series - Emergency Stop

Twist release, 16mm mounted, 50V, 0.2A, IP69K and IP67 Sealed.
Emergency Stop - Approved to EN60947-5-5 and ISO 13850.

61 Series – Emergency Stop

Head Size	No. of Contacts	Mounting Depth	Connection Method	Illuminated 6-32V DC	Part No.
27mm	1 NC	21.2mm	Plug-in/solder	No	61-6441.4047
27mm	2 NC	21.2mm	Plug-in/solder	No	61-6441.4057
27mm	3 NC	21.2mm	Plug-in/solder	No	61-6441.4067
27mm	1 NO / 1 NC	21.2mm	Plug-in/solder	No	61-6441.4077
27mm	2 NC / 1 NO	21.2mm	Plug-in/solder	No	61-6441.4087
27mm	1 NC / 2 NO	21.2mm	Plug-in/solder	No	61-6441.4097
27mm	1 NC	21.2mm	Plug-in/solder	Red LED	61-6451.4247
27mm	2 NC	21.2mm	Plug-in/solder	Red LED	61-6451.4257
27mm	1 NC / 1 NO	21.2mm	Plug-in/solder	Red LED	61-6451.4277
40mm	1 NC	21.2mm	Plug-in/solder	No	61-6461.4047
40mm	2 NC	21.2mm	Plug-in/solder	No	61-6461.4057
40mm	3 NC	21.2mm	Plug-in/solder	No	61-6461.4067
40mm	1 NO / 1 NC	21.2mm	Plug-in/solder	No	61-6461.4077
40mm	2 NC / 1 NO	21.2mm	Plug-in/solder	No	61-6461.4087
40mm	1 NC / 2 NO	21.2mm	Plug-in/solder	No	61-6461.4097

84 Series - Emergency Stop

Twist release, 22.3mm mounted, 250V AC 3A, IP65 Sealed.
Emergency Stop - Non Illuminated - Approved to EN60947-5-5 and ISO 13850.

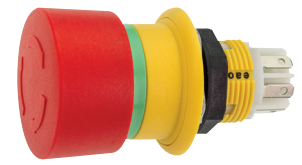
84 Series – Emergency Stop

Actuation Status Ring	No. of Contacts	Mounting Depth	Connection Method	Illuminated	Part No.
Green	1 NO	18mm	Plug-in/solder	No	84-5121.0020
Green	1 NO / 1NC	18mm	Plug-in/solder	No	84-5131.0020
Green	2 NO	18mm	Plug-in/solder	No	84-5141.0020
Black	1 NO	18mm	Plug-in/solder	No	84-5020.0020
Black	1 NO / 1NC	18mm	Plug-in/solder	No	84-5030.0020
Black	2 NO	18mm	Plug-in/solder	No	84-5040.0020
Green	1 NO	13mm	Flying Lead	No	84-5120.0040
Green	1 NO / 1NC	13mm	Flying Lead	No	84-5130.0040
Green	2 NO	13mm	Flying Lead	No	84-5140.0040
Black	1 NO	13mm	Flying Lead	No	84-5020.0040
Black	1 NO / 1NC	13mm	Flying Lead	No	84-5030.0040
Black	2 NO	13mm	Flying Lead	No	84-5040.0040

84 Series – Emergency Stop Illuminated

Actuation Status Ring	No. of Contacts	Mounting Depth	Connection Method	Illuminated	Part No.
Green	1 NO	18mm	Plug-in/solder	Red LED	84-5121.2B20
Green	1 NO / 1NC	18mm	Plug-in/solder	Red LED	84-5131.2B20
Green	2 NO	18mm	Plug-in/solder	Red LED	84-5141.2B20
Black	1 NO	18mm	Plug-in/solder	Red LED	84-5021.2B20
Black	1 NO / 1NC	18mm	Plug-in/solder	Red LED	84-5031.2B20
Black	2 NO	18mm	Plug-in/solder	Red LED	84-5041.2B20
Green	1 NO	13mm	Flying Lead	Red LED	84-5121.2B40
Green	1 NO / 1NC	13mm	Flying Lead	Red LED	84-5131.2B40
Green	2 NO	13mm	Flying Lead	Red LED	84-5141.2B40
Black	1 NO	13mm	Flying Lead	Red LED	84-5021.2B40
Black	1 NO / 1NC	13mm	Flying Lead	Red LED	84-5031.2B40
Black	2 NO	13mm	Flying Lead	Red LED	84-5041.2B40

e a o





Part No. Completion
When ordering complete the Part No. by adding the following:-

Colour	Code
Red	R
Green	G
Yellow	Y
Blue	B
Black	S
White	W

RMQ Titan Series

Pushbuttons

Type	Characteristic	Part No.	
Flush cap	Spring return	M22-D-	<input type="checkbox"/>
	Maintained	M22-DR-	<input type="checkbox"/>
Raised cap	Spring return	M22-DH-	<input type="checkbox"/>
	Maintained	M22-DRH-	<input type="checkbox"/>
Double function	With indicator	M22-DDL-GR-X1/X0	
Mushroom	Spring return	M22-DP-R/X0	

Selector Switches

Type	No. of Position	Action	Part No.
Short handle	2	↓	M22-WKV
	3	↓	M22-WRK3
Set of coding adaptors for converting between maintained and spring return function.			M22-XC-Y

Key Switches

Type	No. of Position	Action	Key Removal	Part No.
Key operated	2	↓	0-I	M22-WRS
	3	↓	I-0-I	M22-WRS3
Set of coding adaptors for converting between maintained and spring return function.				M22-XC-Y
Set of coding adaptors for converting key withdrawability				M22-XC-R

Indicator Lights

Type	Part No.	
Flush	M22-L-	<input type="checkbox"/>
Extended	M22-LH-	<input type="checkbox"/>

Illuminated Pushbuttons

Type	Characteristic	Part No.	
Flush cap	Spring return	M22-DL-	<input type="checkbox"/>
	Maintained	M22-DRL-	<input type="checkbox"/>

Fixing Adaptors

Type	No. of Position	Contact		Part No.
		NO	NC	
Fixing adaptor	Front	1	0	M22-A
	Front	0	1	M22-K10
Contact elements	Base	1	0	M22-KC10
	Base	0	1	M22-KC01

LED Elements

Rating	Fixing	Part No.	
18-30V AC/DC	Front	M22-LED-	<input type="checkbox"/>
	Base	M22-LEDC-	<input type="checkbox"/>
85-264V AC/DC	Front	M22-LED230-	<input type="checkbox"/>
	Base	M22-LEDC230-	<input type="checkbox"/>

Accessories

Type	Part No.
Blanking plug	M22-B
Diaphragms transparent	M22-T-D
Adaptor ring set 30/22.5mm	M22S-R30
Combination box spanner	M22-MS

Legend Plates & Legends

Type	Characteristic	Part No.
Legend plate without holders, insert plates for label mounts	30mm wide	M22S-ST-X
		M22S-XST
Complete legend plates Std. 30x50mm with 18x27mm legends	O I	M22S-ST-X89
	I O II	M22S-ST-X93
	STOP	M22S-ST-GB0
	START	M22S-ST-GB1
	OFF	M22S-ST-GB5
	ON	M22S-ST-GB6
	FAULT	M22S-ST-D8
	RUN	M22S-ST-GB7
	HAND AUTO	M22S-ST-D11
	MAN. AUTO	M22S-ST-GB11
	OFF ON	M22S-ST-GB10
	HAND O AUTO	M22S-ST-D12
MAN. O AUTO	M22S-ST-GB12	
Emergency legend plates	Ø 90mm	M22-XAK1
	Ø 60mm	M22-XBK1

Emergency-Stop Actuators IP66

Mounting	Characteristic	Part No.
Surface	Complete unit	M22-PV/KC11/Y
	Non-illuminated	M22-PV
Front pull to release	Illuminated	M22-PVL
	Key	M22-PVS
Front twist to release	Non-illuminated	M22-PVT
	Illuminated	M22-PVLT

Pushbutton Enclosures - IP66

Type	Part No.
1 Gang	M22-I1
2 Gang	M22-I2
1 Gang for emergency-stop activators	M22-IY1



Part No. Completion
When ordering complete the Part No. by adding the following:-

LED	Colour	Code
	Red	R
	Green	G
	Blue	B
	White	W



Harmony XB4 Series - Metal

Pushbuttons (Heads Only)

Type	Characteristic	Part No.
Flush cap	Choice of 6 colours	ZB4 BA <input type="checkbox"/>
	Green push with "I" marking	ZB4 BA331
	Green push with "START" marking	ZB4 BA333
	Red push with "O" marking	ZB4 BA432
	Red push with "STOP" marking	ZB4 BA434
Raised cap	Transparent cap for insertion of legend	Choice of 6 colours ZB4 BA <input type="checkbox"/> 8
	High bezel	Choice of 6 colours ZB4 BA <input type="checkbox"/> 4
		Choice of 6 colours ZB4 BL <input type="checkbox"/>
		Red push with "O" marking ZB4 BL434
		Red push with "STOP" marking ZB4 BL432
Double function	2 Flush	Green push with "I" marking / Red push with "O" marking ZB4 BA7341
	1 Flush 1 Raised	Green push with "I" marking / Red push with "O" marking ZB4 BL7341
	2 Flush 1 Clear central pilot light ⁽¹⁾	Green push with "I" marking / Red push with "O" marking ZB4 BW7A3741
	1 Flush 1 Raised 1 Clear central pilot light ⁽¹⁾	Green push with "I" marking / Red push with "O" marking ZB4 BW7L3741
	2 Flush 1 Raised red push marked "STOP"	White push with "↑" marking / Black push with "↓" marking ZB4 BA71124
Mushroom head spring return	30mm	Green ZB4 BC34
	40mm	Green ZB4 BC3
	60mm	Green ZB4 BR3
Mushroom head latching	40mm Push-pull	Black ZB4 BT2
	60mm Push-pull	Black ZB4 BX2
	30mm Turn to release	Black ZB4 BS42
	40mm Turn to release	Yellow ZB4 BS55
	60mm Turn to release	Black ZB4 BS62
	30mm Key release ⁽²⁾	Black ZB4 BS72
	40mm Key release ⁽²⁾	Black ZB4 BS12
	60mm Key release ⁽²⁾	Black ZB4 BS22
	40mm Push-pull	ZB4 BT84
	60mm Push-pull	ZB4 BX84
Emergency stop and emergency switching off	30mm Turn to release	ZB4 BS834
	40mm Turn to release	ZB4 BS844
	60mm Turn to release	ZB4 BS864
Red mushroom head, Mechanical latching	30mm Key release ⁽²⁾	ZB4 BS934
	40mm Key release ⁽²⁾	ZB4 BS944
	60mm Key release ⁽²⁾	ZB4 BS964
Emergency switching off, illuminated, Red mushroom head, Mechanical latching	40mm Push-pull ⁽¹⁾	Illuminated ZB4 BW643

(1) Only for use with bodies comprising a light source with integral LED.




(2) For specific keys with other numbers, please consult your local sales office.

Part No. Completion
When ordering complete the Part No. by adding the following:-





Colour	Code
White	1
Black	2
Green	3
Red	4
Yellow	5
Blue	6

Harmony ZB4 Series - Metal

Selector Switches

Type	No. of Position	Action	Padlockable Position	Part No.
Short handle	2	 Maintained		ZB4 BD2
		 Spring return		ZB4 BD4
	3	 Maintained		ZB4 BD3
		 Spring return		ZB4 BD5
Long handle	2	 Maintained		ZB4 BJ2
		 Spring return		ZB4 BJ4
	3	 Maintained		ZB4 BJ3
		 Spring return		ZB4 BJ5
Long handle padlockable	2	 Maintained	I - II	ZB4 BJ294
		 Spring return	I	ZB4 BJ491
	3	 Maintained	I	ZB4 BJ391
		 Maintained	II	ZB4 BJ392
		 Spring return	0	ZB4 BJ593

Key Switches

Type	No. of Position	Action	Key Removal	Part No.
Key operated with key No.455 (1)	2	 Maintained	I - II	ZB4 BG4
		 Spring return	I	ZB4 BG6
	3	 Maintained	I - II - 0	ZB4 BG0
		 Spring return	0	ZB4 BG7

Body Fixing Collar

Type	Part No.
Body fixing collars for use with electrical block (contact or light)	ZB4 BZ009

Pilot Lights

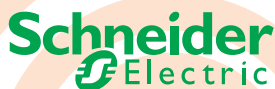
Type	Charactoristic	Part No.
Pilot light heads	Head with non removable lens for LED	ZB4 BV0 <input type="checkbox"/> 3
	Head with plain lens for insertion of legend for LED	ZB4 BV0 <input type="checkbox"/> 3E
Body sub assembly	24V AC/DC	ZB4 BVB <input type="checkbox"/>
	24/120V AC	ZB4 BVBG <input type="checkbox"/>
	24/120V AC	ZB4 BVG <input type="checkbox"/>
	230/240V AC	ZB4 BVM <input type="checkbox"/>
Flush cap for LED	Pushing spring return	ZB4 BW3 <input type="checkbox"/> 3

Schneider
Electric



Part No. Completion
When ordering complete the Part No. by adding the following:-

Pilot lights	Colour	Code
	White	1
	Green	3
	Red	4
	Orange	5
	Blue	6



Harmony ZB5 Series - Plastic

Pushbuttons (Heads Only)

Type	Characteristic	Part No.
	Choice of 6 colours	ZB5 AA <input type="checkbox"/>
	Green push with "I" marking	ZB5 AA331
	Green push with "START" marking	ZB5 AA333
	Red push with "O" marking	ZB5 AA332
	Red push with "STOP" marking	ZB5 AA334
Flush cap	Transparent cap for insertion of legion	Choice of 5 colours ZB5 AA <input type="checkbox"/> 8
	High bezel	Choice of 6 colours ZB5 AA <input type="checkbox"/> 4
		Choice of 6 colours ZB5 CA <input type="checkbox"/>
Square	Green push with "I" marking	ZB5 CA431
	Red push with "O" marking	ZB5 CA432
Clear silicon boot IP69 Protection for insertion of protected legend	Green	ZB5 AP38
	Red	ZB5 AP48
Recessed cap	Circle	Choice of 6 colours ZB5 AA <input type="checkbox"/> 6
	Square	Choice of 6 colours ZB5 CA <input type="checkbox"/> 6
		Choice of 6 colours ZB5 AL <input type="checkbox"/>
Circle	Red push with "STOP" marking	ZB5 AL434
	Red push with "O" marking	ZB5 AL432
Square	Choice of 6 colours	ZB5 CL <input type="checkbox"/>
Clear silicon boot IP69K protection	Choice of 6 colours	ZB5 AP <input type="checkbox"/>
Double function	2 Flush	Green push with "I" marking / Red push with "O" marking ZB5 AA7341
	1 Flush 1 Raised	Green push with "I" marking / Red push with "O" marking ZB5 AL7341
	2 Flush 1 Clear central pilot light ⁽¹⁾	Green push with "I" marking / Red push with "O" marking ZB5 AW7A3741
	1 Flush 1 Raised 1 Clear central pilot light ⁽¹⁾	Green push with "I" marking / Red push with "O" marking ZB5 AW7L3741
2 Flush 1 Raised red push marked "STOP"	White push with "↑" marking / Black push with "↓" marking ZB5 AA71124	
Mushroom head spring return	30mm Push-pull	Green ZB5 AC34 Red ZB5 AC44
	40mm Push-pull	Green ZB5 AC3 Red ZB5 AC4
	60mm Push-pull	Green ZB5 AR3 Red ZB5 AR4
	30mm Push-pull	Black ZB5 AT24
Mushroom head latching	40mm Push-pull	Black ZB5 AT2
	60mm Push-pull	Black ZB5 AX2
	30mm Turn to release	Black ZB5 AS42
	40mm Turn to release	Black ZB5 AS52
	60mm Turn to release	Black ZB5 AS62
	30mm Key release ⁽²⁾	Black ZB5 AS72
	40mm Key release ⁽²⁾	Black ZB5 AS12
60mm Key release ⁽²⁾	Black ZB5 AS22	
Emergency stop, Red mushroom head, Trigger & Mechanical, latching	40mm Push-pull	ZB5 AT84
	30mm Turn to release	ZB5 AS834
	40mm Turn to release	ZB5 AS844
	30mm Key release ⁽²⁾	ZB5 AS934
	40mm Key release ⁽²⁾	ZB5 AS944
	60mm Key release ⁽²⁾	ZB5 AS964

Part No. Completion
When ordering complete the Part No. by adding the following:-

Pushbuttons	Colour	Code
	White	1
	Black	2
	Green	3
	Red	4
	Yellow	5
	Blue	6

(1) Only for use with bodies comprising a light source with integral LED.
(2) For specific keys with other numbers, please consult your local sales office.

Bellows for Harsh Environments (IP69)

Type	Material	Part No.
ZB4 BT4... ZB4 BW643 & ZB5 AT84... ZB5 AS964	Silicone	Red ZBZ 48
	EPDM	Black ZBZ 28 Yellow ZBZ 58

Selector Switches

Type	No. of Position	Action	Padlockable Position	Part No.
Short Handle	2	Maintained		ZB5 AD2
		Spring return		ZB5 AD4
	3	Maintained		ZB5 AD3
		Spring return		ZB5 AD5
Long Handle	2	Maintained		ZB5 AJ2
		Spring return		ZB5 AJ4
	3	Maintained		ZB5 AJ3
		Spring return		ZB5 AJ5

Key Switches

Type	No. of Position	Action	Key Removal	Part No.
Key operated with key No.455 ⁽¹⁾	2	Maintained	I	ZB5 AG2
		Maintained	I - II	ZB5 AG4
	Spring return	I	ZB5 AG6	
	3	Maintained	I - 0 - II	ZB5 AG0
		Spring return	0	ZB5 AG7

Body Fixing Collar

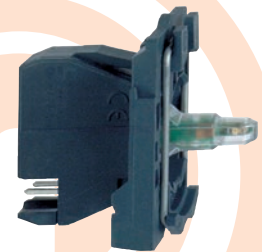
Description	Part No.
Body fixing collars for use with electrical block (contact or light)	ZB5 AZ009

Contact Blocks for ZB4 & ZB5

Type	NO	NC	Part No.
Standard screw clamp terminal blocks single contact	1	-	ZBE 101
	-	1	ZBE 102
Standard spring clamp terminal blocks	1	-	ZBE 1015
	-	1	ZBE 1025
High power switching screw clamp terminal blocks	1	-	ZBE 501
	-	1	ZBE 502
	2	-	ZBE 503
	-	2	ZBE 504
	1	1	ZBE 505

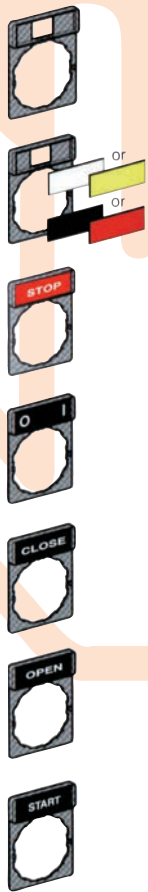
Pilot Lights

Type	Characteristic	Part No.
Pilot Light Heads	Circle Head with non removable lens for LED	ZB5 AV0 <input type="checkbox"/> 3
	Head with plain lens for insertion of legend for LED	ZB5 AV0 <input type="checkbox"/> 3E
	Head with grooved lens for LED	ZB5 AV0 <input type="checkbox"/> 3S
Body Sub Assembly	Square Head with grooved lens for LED	ZB5 CV0 <input type="checkbox"/> 3
	24V AC/DC	ZB5 AVB <input type="checkbox"/>
	110/120V AC	ZB5 AVG <input type="checkbox"/>
	230/240V AC	ZB5 AVM <input type="checkbox"/>



Part No. Completion
When ordering complete the Part No. by adding the following:-

Pilot lights	Colour	Code
	White	1
	Green	3
	Red	4
	Orange	5
	Blue	6



☐ Part No. Completion
When ordering complete the
Part No. by adding the following:-

Colour	Code
White	1
Green	3
Red	4
Yellow	5
Blue	6

Accessories for Harmony Series XB4 & XB5

Light Blocks

Type	Characteristic	Part No.
Integral LED	12V AC/DC	ZBV J ☐
Screw clamp	24V AC/DC	ZBV B ☐
Terminal connections	230/240V AC	ZBV G ☐
	230/240V AC	ZBV M ☐

Legend Plates & Legends

Type	Characteristic	Part No.	
Legend holders, Std.30 x 40mm	Without Legend	ZBZ 32	
	With Blank Black or Red Legend	ZBY 2101	
	With Blank White or Yellow Legend	ZBY 4101	
	0	ZBY 2146	
	I	ZBY 2147	
	II	ZBY 2148	
	0 - I	ZBY 2178	
	I - II	ZBY 2179	
	I - 0 - II	ZBY 2186	
	AUTO	ZBY 2115	
	CLOSE	ZBY 2314	
	DOWN	ZBY 2308	
	FAST	ZBY 2328	
	FORWARD	ZBY 2305	
	HAND	ZBY 2316	
	INCH	ZBY 2321	
	LEFT	ZBY 2310	
Legend holders, Std.30 x 40mm With 8 x 24mm legends (Black background)	OFF - ON	ZBY 2367	
	ON	ZBY 2311	
	OPEN	ZBY 2313	
	POWER ON	ZBY 2326	
	REVERSE	ZBY 2306	
	RIGHT	ZBY 2309	
	RUN	ZBY 2334	
	SLOW	ZBY 2327	
	START	ZBY 2303	
	UP	ZBY 2307	
	EMERGENCY STOP	ZBY 2330	
	0	ZBY 2931	
	OFF	ZBY 2312	
	STOP	ZBY 2304	
	Transparent cap legends (sheets of 66 circular)	0	ZBY 1146
		I	ZBY 1147
		60mm dia. Blank	ZBY 9101
90mm dia. Blank		ZBY 8101	
Emergency legend plates (Circular) Yellow background	60mm dia. EMERGENCY STOP	ZBY 9320	
	90mm dia. EMERGENCY STOP	ZBY 8330	

Ancillaries

Type	Part No.
Blanking hole plug	ZB5 SZ3

Harmony Control Station

Type	Characteristic	Part No.
Complete	"I" / "O" (Green/Red) - NO+NC station	XALD213
	2 button "UP" / "DOWN"	XALD222
	"UP" / "O" / "DOWN" - NO+NC+NO station	XALD324
	Turn to release E-Stop 2 NC	XALK178F
	Key operated E-Stop 2 NC	XALK188F
Empty enclosure for ZB5	1 Hole empty control station	XALD01
	2 Hole empty control station	XALD02
	3 Hole empty control station	XALD03
	1 Hole empty E-Stop station	XALK01
Single contact block	Head Ø22 1NO screw clamp terminal	ZENL1111
	Head Ø22 1NC screw clamp terminal	ZENL1121

Harmony 22mm Biometric Switch

Type	Description	Part No.
PNP Bistable biometric switch	24V 2m	XB5S1B2L2
	24V M12	XB5S1B2M12
PNP Monostable biometric switch	24V 2m	XB5S2B2L2
	24V M1	XB5S2B2M12

XAC Series Pendant Control Stations

The XAC-A pendant control stations are designed for mechanical handling of hoists and travelling cranes and similar applications.

The IP65 polypropylene casings are available from 2 way to 12 way and can accommodate a variety of actuators.



Empty Enclosures

Type	Part No.
2 Cut Outs	XAC A02
3 Cut Outs	XAC A03
4 Cut Outs	XAC A04
5 Cut Outs	XAC A05
6 Cut Outs	XAC A06
8 Cut Outs	XAC A08
12 Cut Outs	XAC A12

Protective Guards for Base Mounted Units

Description	Part No.
To protect either a selector switch or mushroom head pushbutton	XAC A982
To protect either a key switch or key release emergency stop	XAC A983

22.5mm Pushbuttons

Type	Characteristic	Part No.
Booted pushbutton		XAC A941 <input type="checkbox"/>
Emergency stop	30mm Turn release	ZA2 BS834
	40mm Turn release	ZA2 BS844
Red mushroom head	40mm Key release	ZA2 BS944

Switches

Type	No. of Position	Action	Part No.
Selector switch	2	Maintained	ZA2 BD2
	3	Maintained	ZA2 BD3
Key switch	2	Maintained I-II	ZA2 BG4
	3	Maintained 0	ZA2 BG3

Accessories

Description	Part No.
Blanking plug with seal and lock nut	ZB2 SZ3
Mechanical interlock for 2 pushbuttons	XAC A009

Pilot Lights

Type	Characteristic	Part No.
Pilot light heads	For use with incandescent bulb	ZA2 BV0 <input type="checkbox"/>
	For use with neon bulb	ZA2 BV0 <input type="checkbox"/> 3
Pilot light body	Direct supply 400V	ZA2 BV006
	Through resistor 230V	ZA2 BV007

Contact Blocks

NO	NC	Characteristic	Part No.
1	-	Front mounting	ZB2 BE101
-	1	Front mounting	ZB2 BE102
2	1 Staggered	Front mounting	XEN G1191
1	-	Base mounting	XAC S101
-	1	Base mounting	XAC S102
2	-	Base mounting	XAC S103
-	2	Base mounting	XAC S104
1	1	Base mounting	XAC S105



Part No. Completion
When ordering complete the Part No. by adding the following:-

	Colour	Code	Code
Pushbuttons	Black	2	
	Red	4	4
	Yellow	5	5
	Green	3	3
	Blue	6	6
	White	1	1
	Clear		7
			Pilot Lights

SIEMENS



SIRIUS ACT

Pushbuttons

Type	Characteristic	Plastic Part No.	Metal Part No.
Pushbutton with flat button	Black	3SU10000AB100AA0	3SU10500AB100AA0
	Red	3SU10000AB200AA0	3SU10500AB200AA0
	Yellow	3SU10000AB300AA0	3SU10500AB300AA0
	Green	3SU10000AB400AA0	3SU10500AB400AA0
	Blue	3SU10000AB500AA0	3SU10500AB500AA0
Emergency stop mushroom	White	3SU10000AB600AA0	3SU10500AB600AA0
	Red	3SU10001HB200AA0	3SU10501HB200AA0

Illuminated Pushbuttons

Illuminated with flat button	Red	3SU10010AB200AA0
	Yellow	3SU10010AB300AA0
	Green	3SU10010AB400AA0
	Blue	3SU10010AB500AA0
	White	3SU10010AB600AA0

Indicator Lamps

Indicator lights with smooth lens	Red	3SU10016AA200AA0
	Yellow	3SU10016AA300AA0
	Green	3SU10016AA400AA0
	Blue	3SU10016AA500AA0
	White	3SU10016AA600AA0

Selector Switches

Type	No. of Position	Action	Maintained Positions	Part No. Plastic	Part No. Metal
Short Handle	2	Spring return	B-C	3SU10022BC100AA0	
		Maintained	B-C	3SU10022BF100AA0	3SU10522BC100AA0
	3	Key switch	B-C	3SU10004BF110AA0	
		Maintained	A-B-C	3SU10022BL100AA0	3SU10522BL100AA0
		Spring return	A-B/C-B	3SU10022BM100AA0	

Contact Blocks for Enclosures

NO	NC		Part No.
1	0	Screw terminal, for front plate mounting	3SU14001AA101BA0
0	1	Screw terminal, for front plate mounting	3SU14001AA101CA0
0	0	Holder for 3 modules, plastic	3SU15000AA100AA0
1	0	Holder for 3 modules, plastic, screw terminal	3SU15001AA101BA0
0	1	Holder for 3 modules, plastic, screw terminal	3SU15001AA101CA0
1	0	Holder for 3 modules, metal, screw terminal	3SU15501AA101BA0
0	1	Holder for 3 modules, metal, screw terminal	3SU15501AA101CA0

LED Modules

Voltage	Colour		Part No.
24V AC/DC	Red	Screw terminal, for front plate mounting	3SU14011BB201AA0
	Yellow		3SU14011BB301AA0
	Green		3SU14011BB401AA0
	Blue		3SU14011BB501AA0
	White		3SU14011BB601AA0

LED Modules

24-240V AC/DC	Red	Screw terminal, for front plate mounting	3SU14011BH201AA0
	Yellow		3SU14011BH301AA0
	Green		3SU14011BH401AA0
	Blue		3SU14011BH501AA0
	White		3SU14011BH601AA0

LMU Series Direct Voltage Indicator Lamps

Direct Voltage Indicators enable indicator lamps to be connected directly to the Supply Voltage.

Functions

Input Voltages: Same as and determined by the lamp used.
Lamp Caps: E0 Miniature Edison Screw - MES

Mounting Type

Mount to panel using JY or H series housings and lenses.
LMU's screw onto housings

LMU - Standard Direct Indicator Lamp Body

Type	Part No.
C/W 24V lamp	LMU24/4
W/O lamp	LMUMES/4

TranLamp



TMU Series Transformer Lamp Indicators

Transformer lamps are generally used for running indicator lamps on control panels at low voltages.

Functions

Input Voltages: 24,110, 240V AC.
Frequency: 50/60 Hz as standard.
Lamps: 6V, 1.8W tubular filament lamp supplied as standard.

Mounting Type

Mount to panel using JY or H series housings and lenses.
TMU's screw onto housings

TMU - Standard Transformer Indicator Lamp Body

Input Voltage	Part No.
24	TMU/24/4
110	TMU/110/4
240	TMU/240/4



MTMU Series Multi-Lamp Test Indicators

Multi-Lamp Test Indicators enable groups of indicator lamps to be tested from a single pushbutton switch without interrupting normal operation.

Functions

Input Voltages: 24,110, 240V AC.
Frequency: 50/60 Hz as standard.
Lamps: 6V, 1.8W tubular filament lamp supplied as standard.

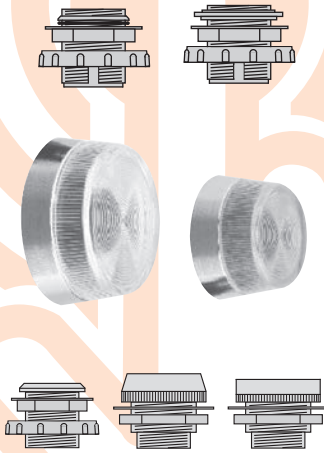
Mounting Type

Mount to panel using JY or H series housings and lenses.
MTMU's screw onto housings

MTMU - Standard Multi-Test Transformer Indicator Body

Input Voltage	Part No.
24	MTMU/24/4
110	MTMU/110/4
240	MTMU/240/4





Part No. Completion
When ordering complete the Part No. by adding the following:-

Code
Red
Amber
Green
White
Clear
Blue

Lens
Red
Amber
Green
White
Clear
Blue

Housings & Lenses

JY Series

Housings: Black moulded glass reinforced nylon.
Lens: Polycarbonate welded to brass.
Protection: IP64

Housing

Hole Diameter (mm)	Part No.
Ø19	MP HOUSING BODY
Ø22.5	FP HOUSING BODY

Lens

Lens Diameter (mm)	For MP Housing	Part No.
Ø22.3	For MP Housing	BJ LENS BENZEL <input type="checkbox"/>
Ø30	For MP & FP Housing	BY LENS <input type="checkbox"/>

H Series

Housings: Chrome plated brass.
Lens: Polystyrene (2W lamp maximum)
Protection: IP64

Housing

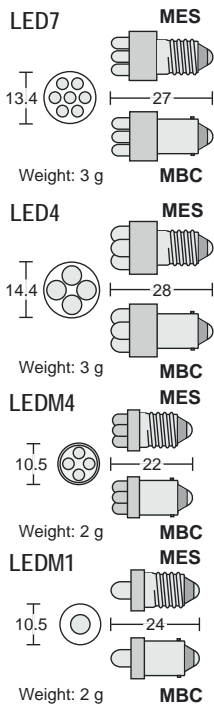
Hole Diameter (mm)	Part No.
Ø19	MH LESS LENS
Ø22.5	FH LESS LENS
Ø22.5	FHB LESS LENS

Lens

Lens Diameter (mm)	For MH Housing	Part No.
Ø17.5	For MH Housing	MA LENS <input type="checkbox"/>
Ø17	For MH Housing	MC LENS <input type="checkbox"/>
Ø21.5	For MF Housing	FA LENS <input type="checkbox"/>
Ø23.5	For MF Housing	FB/LB LENS <input type="checkbox"/>

LED Cluster

Long life, bright lamps at lower currents. The LEDs are configured as standard in parallel circuits. This means that the functionality of the lamp is maintained in the event of a diode failure.



Type	Supply		Current mA			Product Code Make-Up				LED Cluster MES or MBC		
	AC/DC	Volts	AGR	B	W	Type	Colour	Supply	Current	Cap	Colours	Type
LED7 Wide light spread for indicator lamps	AC	4.5	60	80	80	LED7	A G R B W	4.5V AC	MES or MBC	20mA	Amber, Green or Red	LED7 4.5V AC or DC
		24	40	40	40			24V AC				LED7 24V AC or DC
		110	8	8	8			101V AC				LED7 110V AC
	DC	*4.5	80	-	-			4.5V DC			Blue	LED7 4.5V AC or DC
		24	40	40	40			24V DC			LED7 110V AC	
		24	20	20	20			24V DC			White	LED7 4.5V AC or DC
LED4 for indicator lamps	AC	4.5	40	40	40	LED4	A G R B W	4.5V AC	MES or MBC	20mA	Amber, Green or Red	LED7 24V AC or DC
		24	40	40	40			24V AC				LED7 110V AC
		110	8	8	8			101V AC				LED7 4.5V AC or DC
	DC	*4.5	40	-	-			4.5V DC			Blue	LED7 4.5V AC or DC
		24	40	40	40			24V DC			LED7 24V AC or DC	
		24	20	20	20			24V DC			LED7 110V AC	
LEDM1 for indicator lamps	AC	4.5	20	20	20	LEDM1	A G R B W	4.5V AC	MES or MBC	20mA	White	LED7 4.5V AC or DC
		24	20	20	20			24V AC				LED7 24V AC or DC
		110	8	8	8			101V AC				LED7 110V AC
	DC	24	20	20	20			4.5V DC			Amber or Red	LED7 4.5V AC or DC
		24	20	20	20			24V DC			LED7 24V AC or DC	
		24	20	20	20			24V DC			LED7 110V AC	

* Blue and White clusters are not available at 4.5V DC
Colour Key: A=Amber, G=Green, R=Red, B=Blue, W=White

Product Part No. Make-Up

Example 1	LED7A 4.5V AC MES	= LED7 Amber cluster 4.5V AC with E10 MES cap.
Example 2	LED4R 24V DC 20mA MBC	= LED4 Red cluster 24V DC (20mA option) with BA9s MBC.
Example 3	LEDM1W 24V AC MBC	= LEDM1 White single LED 24 AC with BA9s MBC.

Rotary Cam Switches

4 hole mounting with escutcheon plate.

Ratings: 690V
 Ith: 20A
 AC23 @ 440V: 7.5kW
 AC3 @ 440V: 5.5kW

Panel Mounting

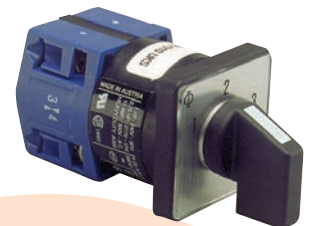
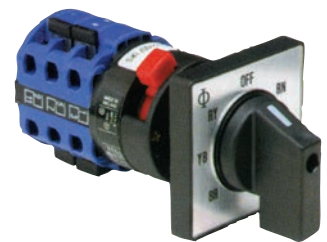
Function	No of Poles	Part No.
OFF / ON 60° Switching	1	CA10 A200 620E
	2	CA10 A201 620E
	3	CA10 A202 620E
	4	CA10 A203 620E
	6	CA10 A342 620E
Changeover with centre OFF 60° Switching	1	CA10 A210 620E
	2	CA10 A211 620E
	3	CA10 A212 620E
	4	CA10 A213 620E
Changeover without centre OFF 60° Switching	1	CA10 A220 600E
	2	CA10 A221 600E
	3	CA10 A222 600E
	4	CA10 A223 600E
3 Step without OFF 60° Switching	1	CA10 A230 600E
	2	CA10 A250 600E
	3	CA10 A270 600E
4 Step without OFF 60° Switching	1	CA10 A231 600E
	2	CA10 A251 600E
	3	CA10 A271 600E
Volmeter switch		CA10 A004 622E
		CA10 A007 622E
Ammeter switch	c/w Header plate	CA10 A007 623E
		CA10 A048 621E
Motor reversing	c/w Header plate	CA10 A048 622E
		CA10 A401 620E

The above switches are available in a single hole mount version. Replace the E at the end of the part no. with FT2.

The above switches (except voltmeter, ammeter and motor reversing switch) are also available in the CG4 size.

CG4 Ratings: 440V

Ith: 10A
 AC23 @ 440V: 3kW
 AC3 @ 440V: 2.2kW



Bussmann

by **EATON**



Fuse Links - BS88

BS88 Ref.	Utilisation Category	Rating Amp	Max Voltage AC	Rating DC	Pack Qty.	Part No.	
A1	gG	2	550	250	1	NITD2	
		4	550	250	1	NITD4	
		6	550	250	1	NITD6	
		10	550	250	1	NITD10	
		16	550	250	1	NITD16	
	20	550	250	6	NITD20		
	gM	20M25	440	-	6	NITD20M25	
		20M32	440	-	6	NITD20M32	
	gG	25	440	-	6	* NITD25	
		32	440	-	6	* NITD32	
gM	32M40	440	-	6	* NITD32M40		
	32M50	440	-	6	* NITD32M50		
	32M63	440	-	6	* NITD32M63		
A2	gG	2	660	460	6	AA02	
		4	660	460	6	AA04	
		6	660	460	6	AA06	
		10	660	460	6	AA010	
		16	660	460	6	AA016	
		20	660	460	6	AA020	
		25	660	460	6	AA025	
		32	660	460	6	AA032	
		gM	32M35	660	460	6	AA032M35
			32M40	660	460	6	AA032M40
32M50	660		460	6	AA032M50		
32M63	660		460	6	AA032M63		
A3	gG	32	660	460	6	BA035	
		40	660	460	6	BA040	
		50	660	460	6	BA050	
		63	660	460	6	BA063	
		63M80	660	-	6	BA063M80	
gM	63M100	660	-	6	BA063M100		
	32	660	460	6	CE032		
A4	gG	40	660	460	6	CE040	
		50	660	460	6	CE050	
		63	660	460	2	CE063	
		80	660	350	2	CE080	
		100	660	350	2	CE0100	
gM	100M125	660	350	2	CE0100M125		
	100M160	660	350	2	CE0100M160		
	100M200	660	350	2	CE0100M200		
	125	660	350	2	DE0125		
-	gG	160	660	350	2	DE0160	
		200	660	350	2	DE0200	
		80	660	350	11	CD80	
B1	gG	100	660	350	1	CD100	
		100M125	660	350	11	CD100M125	
	gM	100M160	660	350	1	CD100M160	
		100M200	660	350	1	CD100M200	
B2	gG	125	660	350	1	DD125	
		160	660	350	5	DD160	
	gM	200	660	350	5	DD200	
		200M250	660	460	5	DD200M250	
B3	gG	200M315	550	-	5	DD200M315	
		250	600	460	1	ED250	
		315	660	460	1	ED315	
	gM	250	660	460	1	EFS250	
		315	660	460	1	EFS315	
B4	gM	315M355	660	460	1	EFS315M355	
		335	660	460	1	ED335	
		400	660	460	1	ED400	
C1	gG	400M450	660	460	1	ED400M450	
		335	660	460	1	EF355	
		400	660	460	1	EF400	
C2	gG	400M450	660	460	1	EF400M450	
		450	660	450	1	FF450	
		500	660	450	1	FF500	
	gM	560	660	450	1	FF560	
		630	660	450	1	FF630	
C3	gG	630M670	660	450	1	FF630M670	
		670	660	350	1	GF670	
		710	660	350	1	GF710	
		750	660	350	1	GF750	
800	660	350	1	GF800			

All 'RED SPOT' fuse links have a utilisation category of either gG or gM and so have a full range breaking capacity.

The first letter indicates the breaking range of the fuse link, as follows: 'g' Full range breaking capacity fuse link.

The second letter indicates utilisation category, as follows: 'G' Fuse link for general application, including the protection of motor circuits.

'M' Fuse link for protection of motor circuits.

Fuse Links

BS88 Ref.	Utilisation Category	Rating Amp	Max Voltage Rating AC	Part No.	
E1	gG	2	240	SSD2	
		4	240	SSD4	
		6	240	SSD6	
		10	240	SSD10	
		16	240	SSD16	
		20	240	SSD20	
F1	gG	2	440	NSD2	
		4	440	NSD4	
		6	440	NSD6	
		10	440	NSD10	
		16	440	NSD16	
		20	440	NSD20	
		25	440	NSD25	
		32	440	NSD32	
		gM	32M40	415	NSD32M40
		40	440	ESD40	
F2	gG	50	440	ESD50	
		63	440	ESD63	
		gM	63M80	415	ESD63M80
	gG	80	440	OSD80	
		100	440	OSD100	
-	gM	100M125	415	OSD100M125	
		100M160	415	OSD100M160	

Fuse Holders

Rating Amp	Fuse Link Type	Type of Connection	Colour	Part No.	
20	SSD	Front	Black	SC20H	
			White	SC20H WH	
			Green	SC20H GN	
		Back	Black	SC20P	
			White	SC20P WH	
			Green	SC20P GN	
32	NSD	Busbar / Front	Black	SC20BH	
			Black	SC32HD	
			White	SC32HD WH	
		Front	Green	SC32HD GN	
			Black	SC32P	
			White	SC32P WH	
		Back	Green	SC32P GN	
			Busbar / Front	Black	SC32BH
			Black	SC63HD	
63	ESD	Front	White	SC63HD WH	
			Black	SC63P	
		Busbar / Front	Black	SC63BH	
			Black	SC100H	
100	OSD	Front	Black	SC100H	

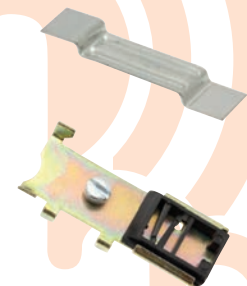
Copper Links

Amps	Associated Fuse Holder	Part No.
20	SC32	NSC LINK
32	SC63	ESC LINK
63	SC100	OSC LINK
100	SC125	XSC LINK

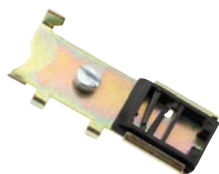
Padlockable Rail

Amps	Part No.
32	SC32LOCK
63	SC63LOCK

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RED SPOT

Fuse Holders

Rating Amp	Fuse Link Type	Type of Connection	Colour	Part No.
20	NITD	Front	Black	RS20H
			White	RS20H WH
		Front / Back	Green	RS20H GN
			Grey	RS20H GY
		Back, Surface	Black	RS20PH
			Black	RS20PG
			White	RS20PGWH
			Black	RS20F
		Back, Flush	White	RS20F WH
			Green	RS20F GN
Black	RS32H			
White	RS32H WH			
32	AA0	Front	Green	RS32H GN
			Black	RS32PH
		Front / Back	Black	RS32P
			White	RS32P WH
		Back	Green	RS32P GN
			Black	RS63H
63	BA0	Front	White	RS63H WH
			Black	RS63PH
		Front / Back	Black	RS63P
			White	RS63P WH
100	CEO	Front	Black	RS100H
			White	RS100H WH
		Front / Back	Black	RS100PH
			Black	RS100P
200	DD	Front	White	RS100P WH
			Black	RS200H
		Front / Back	White	RS200H WH
			Black	RS200PH
400	ED	Front	Black	RS200P
			White	RS200P WH
		Front / Back	Black	RS400H
			Black	RS400PH
Back	Black	RS400P		

Accessories

Signal Red Warning Carriers

Amps	Part No.
20	RS20RED
32	RS32RED
63	RS63RED
100	RS100RED

Padlockable Insert

Amps	Part No.
20	RS20LOCK
32	RS32LOCK
63	RS63LOCK
100	RS100LOCK

Copper Links

Amps	Associated Fuse Holder	Part No.
20	RS20/RS32	32CMLC
63/100	RS63	63/100CML

DIN Rail Adaptor

Description	Part No.
DIN rail adaptor for RS20H	DIN 20/32



HTE Controls Transformers

- Continuously rated panel mounting, double wound isolating transformers
- Manufactured in the UK and designed to fully comply with BS EN6558
- Copper earth screen between primary and secondary windings
- Multi tapped to include the harmonised European voltages
- Terminals clearly colour coded for easy identification
- Terminals give finger proof protection (IP20)
- Additional fixing points for easy identification in panels
- Varnish impregnated

Special Transformers

If our standard range does not suit your application, we are happy to quote for your specific transformer requirements. Please contact our sales office with the specification, for a speedy response.

Suggested Primary Fuse Vaules		
VA Rating	10-0-220-240 Primary	20-0-380-420 Primary
50	0.5	0.315
100	0.8	0.5
150	1.25	0.8
200	2	1.25
300	3.15	2
400	4	2
500	6.3	3.15
750	8	5
1000	10	6.3
1500	16	8
2000	16	8
2500	20	10
3000	25	16
5000	40	25



Transformers

VA Rating	Primary Voltage	Insert Secondary Voltage	Part No.
50	10-0-220-240	<input type="checkbox"/>	HTE 50 230
	20-0-380-420	<input type="checkbox"/>	HTE 50 400
100	10-0-220-240	<input type="checkbox"/>	HTE 100 230
	20-0-380-420	<input type="checkbox"/>	HTE 100 400
150	10-0-220-240	<input type="checkbox"/>	HTE 150 230
	20-0-380-420	<input type="checkbox"/>	HTE 150 400
200	10-0-220-240	<input type="checkbox"/>	HTE 200 230
	20-0-380-420	<input type="checkbox"/>	HTE 200 400
300	10-0-220-240	<input type="checkbox"/>	HTE 300 230
	20-0-380-420	<input type="checkbox"/>	HTE 300 400
400	10-0-220-240	<input type="checkbox"/>	HTE 400 230
	20-0-380-420	<input type="checkbox"/>	HTE 400 400
500	10-0-220-240	<input type="checkbox"/>	HTE 500 230
	20-0-380-420	<input type="checkbox"/>	HTE 500 400
750	10-0-220-240	<input type="checkbox"/>	HTE 750 230
	20-0-380-420	<input type="checkbox"/>	HTE 750 400
1000	10-0-220-240	<input type="checkbox"/>	HTE 1000 230
	20-0-380-420	<input type="checkbox"/>	HTE 1000 400
1500	10-0-220-240	<input type="checkbox"/>	HTE 1500 230
	20-0-380-420	<input type="checkbox"/>	HTE 1500 400
2000	10-0-220-240	<input type="checkbox"/>	HTE 2000 230
	20-0-380-420	<input type="checkbox"/>	HTE 2000 400
2500	10-0-220-240	<input type="checkbox"/>	HTE 2500 230
	20-0-380-420	<input type="checkbox"/>	HTE 2500 400
3000	10-0-220-240	<input type="checkbox"/>	HTE 3000 230
	20-0-380-420	<input type="checkbox"/>	HTE 3000 400
5000	10-0-220-240	<input type="checkbox"/>	HTE 5000 230
	20-0-380-420	<input type="checkbox"/>	HTE 5000 400

Please note: Transformers above 1500VA with low voltage secondary output will be fitted with stud terminals.

Part No. Completion
When ordering complete the Part No. by adding the following:-

Secondary Voltage	<input type="checkbox"/>
0-CT-24	24
0-CT-48	48
0-CT-110	110
0-CT-240	240

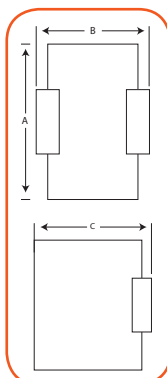
Accessories

- Ventilated Sheet steel IP23 enclose
- Wall or floor mounted
- Cable entry - 25mm cutouts

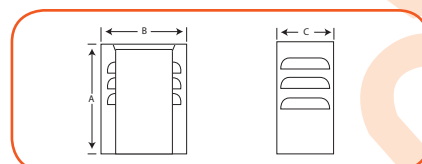
Enclosures

To Suit Transformer Size	Part No.
50... 100VA	AP0
200... 500VA	AP2
750... 1000VA	AP4
1500... 3000VA	AP5
5000VA	AP6

Transformers (approx. size)				
Size VA	A	B	C	Weight kg
50	80	80	90	1.1
100	98	95	110	2.1
150	98	105	110	2.8
200	118	100	125	3.7
300	118	113	125	4.5
400	137	110	140	6.9
500	137	130	140	7.4
750	137	143	140	10.2
1000	168	150	175	12.6
1500	168	182	175	17.4
2000	216	162	215	21.0
2500	216	175	215	24.0
3000	233	200	230	34.8
5000	286	216	299	53.0



Enclosures (approx. size)				
Type	A	B	C	Weight kg
AP0	132	200	118	1
AP2	225	220	155	2
AP4	272	340	185	3
AP5	355	350	250	5
AP6	455	385	315	7





Transformers - 240V AC - 24V AC

VA Rating	Part No.
50	SV0050P4S6
100	SV0100P4S6
150	SV0150P4S6
200	SV0200P4S6
250	SV0250P4S6
400	SV0400P4S6
500	SV0500P4S6
750	SV0750P4S6

Transformers - 240V AC - 110V AC

50	SV0050P4S4
100	SV0100P4S4
150	SV0150P4S4
200	SV0200P4S4
250	SV0250P4S4
400	SV0400P4S4
500	SV0500P4S4
750	SV0750P4S4
1000	SV1000P4S4

Transformers - 415V AC - 24V AC

50	SV0050P5S6
100	SV0100P5S6
150	SV0150P5S6
200	SV0200P5S6
250	SV0250P5S6
400	SV0400P5S6
500	SV0500P5S6
750	SV0750P5S6
1000	SV1000P5S6

Transformers - 415V AC - 110V AC

50	SV0050P5S4
100	SV0100P5S4
150	SV0150P5S4
200	SV0200P5S4
250	SV0250P5S4
400	SV0400P5S4
500	SV0500P5S4
750	SV0750P5S4
1000	SV1000P5S4

DURACELL®



Industrial Range

General purpose alkaline manganese batteries.

These alkaline batteries are manufactured by Duracell for the industrial user. High performance, long life and a 5 year shelf life. Each battery is date stamped for freshness.

Industrial Batteries

Type	Voltage	Pack Qty.	Part No.
9V	9.0	10	MN1604
AAA	1.5	10	MN2400
AA	1.5	10	MN1500
C	1.5	10	MN1400
D	1.5	10	MN1300

S8VK-G Series

The S8VK-G offers a wide product range (from 15W up to 480W), in a very compact size. It is 13% smaller than comparable power supplies and the smallest on the market of its type.

- Wide operating temperature range (-40 to +70°C) to guarantee operation stability
- Double set of DC output terminals (three for the negative) to provide easy wiring
- High efficiency (90%) to reduce energy consumption
- Power Boost functionality (120%)

S8VK-G

Power Rating	Input Voltage	Output Voltage	Output Current	Part No.
15W	100-240V AC	12V DC	1.2A	S8VKG-01512
			0.65A	S8VKG-01524
24V DC		1.3A	S8VKG-03024	
		2.5A	S8VKG-06024	
		5A	S8VKG-12024	
		10A	S8VKG-24024	
480W		20A	S8VKG-48024	



Phaseo ABL8 Series

The Modular, Optimum, and Universal series of regulated switch mode power supplies are designed to provide DC voltage necessary for electrical equipment. Designed for applications ranging from simple machine control, to complex systems requiring status contacts and battery back up options.

Single Phase

Input Voltage	Frequency	Output Voltage	Output Amps	Power (W)	Part No.
100-240V AC / 120-250V DC	47-63Hz	24V DC	1.2A	30	ABL8MEM24012
100-240V AC / 110-220V DC			3A	72	ABL8REM24030
			5A	120	ABL8REM24050
100-120V AC / 200-500V AC			10A	240	ABL8RPS24100

Three Phase

380-500V AC	47-63Hz	24V DC	20A	480	ABL8WPS24200
			40A	960	ABL8WPS24400



SITOP smart Series

SITOP smart is the high-performance standard power supply for automated machines and systems with 24V or 12V electronics.

- Small footprint thanks to compact design, no clearances required at the sides
- "Extra power" with 1.5 times the rated current for 5 s/min for transient overloads
- 120% of the rated capacity can be used durably up to 45°C ambient temperature (24V models)
- Signalling contact for "Output voltage OK" for easy integration into the system monitoring

SITOP smart

Input Voltage	Output Voltage	Output Current	Part No.
(1AC)120-230V AC	24V DC	2.5A	6EP1332-1LB00
		5A	6EP1333-1LB00
		10A	6EP1334-1LB00
		10A	6EP1434-2BA10
(3AC)400-500V AC		20A	6EP1436-2BA10
		40A	6EP1437-2BA10





ConnectPower

- Compact DIN rail mounted power supplies
- Wide range of input voltages
- International approvals, CE, UL, CSA EN60204 (PELV); EN 60950m (SELV)
- Parallel operation on Eoline range

WavePower

Input Voltage	Frequency	Output Voltage	Amps	Power (W)	Part No.
85-265V AC / 120-300V DC	50-60 Hz	24V DC	0.5A	12	9918840024

InstaPower

Input Voltage	Frequency	Output Voltage	Amps	Power (W)	Part No.
85-265V AC / 120-300V DC	50-60 Hz	24V DC	1A	24	9928890024
85...264V AC / 110...370V DC	50-60 Hz	15...28V DC	2A	48	8739140000

PROeco Single Phase

Input Voltage	Frequency	Output Voltage	Amps	Power (W)	Part No.
85...264V AC / 80...370V DC	50-60Hz	24V DC	3	72	1469470000
			5	120	1469480000
			10	240	1469490000
			20	480	1469510000
			40	960	1469520000

PROeco Three Phase

Input Voltage	Frequency	Output Voltage	Amps	Power (W)	Part No.
340...575V AC / 450...870V DC	47... 63Hz	24V DC	5	120	1469530000
			10	240	1469540000
			20	480	1469550000
			40	960	1469560000

PROmax Single Phase

Input Voltage	Output Voltage	Amps	Power (W)	Part No.
AC 85...277 / DC 80...370	24	3	72	1478100000
	24	5	120	1478110000
	24	7.5	180	1478120000
	24	10	240	1478130000
	24	20	480	1478140000
	24	40	960	1478150000

PROtop Single Phase

Input Voltage	Output Voltage	Amps	Power (W)	Part No.
AC 85...277 / DC 80...410	24	3	72	2466850000
	24	5	120	2466870000
	24	10	240	2466880000
	24	20	480	2466890000
	24	40	960	2466900000

55 Series

Contact rating: 10A for the DPDT version (240V resistive load) / 7A for the 4PDT version.

Plug-In Relays

Type	Contact Arrangement	Coil Type	Coil Voltage	Part No.
With LED indicator and test button	DPDT	DC	24V	55.32.9.024.0074
		DC	12V	55.34.9.012.0074
	4PDT	DC	24V	55.34.9.024.0074
		AC	100/110V	55.34.9.110.0074
		AC	110/120V	55.34.8.110.0054
		AC	220/240V	55.34.8.230.0054

Base & Clips for 55 Series Relays

Type	For Relay	Part No.
DIN Rail Surface Mounting (includes retaining clip)	DPDT	94.72SMA
	4PDT	94.74SMA

Other coil voltages available on request.

56 Series

Contact rating: 12A (240V resistive load)

Plug-In Relays

Type	Contact Arrangement	Coil Type	Coil Voltage	Part No.
Standard	DPDT	DC	24V	56.32.9.024.0040
	4PDT	AC	24V	56.34.8.024.0040

Base & Clips for 56 Series Relays

Type	For Relay	Part No.
DIN rail surface mounting (includes retaining clip)	DPDT	96.72SMA
	4PDT	96.74SMA

Other coil voltages available on request.

60 Series

Contact rating: 10A (240V resistive load)

Plug-In Relays

Type	Contact Arrangement	Coil Type	Coil Voltage	Part No.
With LED indicator and test button	DPDT	AC	110V	60.12.8.110.0054
		DC	24V	60.12.9.024.0074
	3PDT	AC	110V	60.13.8.110.0054
		DC	24V	60.13.9.024.0074

Base & Clips for 60 Series Relays

Type	For Relay	Part No.
DIN rail surface mounting (includes retaining clip)	DPDT	90.26SMA
	3PDT	90.27SMA

Other coil voltages available on request.

46 Series

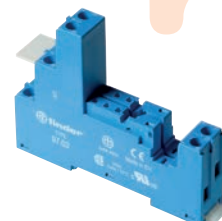
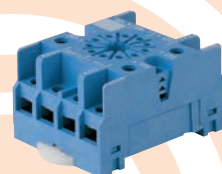
Contact rating: 16A for the SPDT version (240V resistive load)
8A for the DPDT version

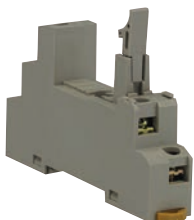
Plug-In Relays

Type	Contact Arrangement	Coil Type	Coil Voltage	Part No.
With operation indicator	SPDT	AC	24V	46.61.8.024.0040
		DC	24V	46.61.9.024.0040
	DPDT	AC	24V	46.52.8.024.0040
With LED indicator, diode suppression & test button	DPDT	DC	24V	46.52.9.024.0074

Base & Clips for 60 Series Relays

Type	For Relay	Part No.
DIN rail surface mounting (Back connecting socket -PCB terminal)	SPDT	97.01SPA
	DPDT	97.02SPA





MY Series

Contact rating: 5A for the DPDT version (240V resistive load) / 3A for the 4PDT version.

Plug-In Relays

Type	Contact Arrangement	Coil Type	Coil Voltage	Part No.
Standard	DPDT	DC	24V	MY2 24DC S
	4PDT	DC	100/110V	MY4 100/110DC S
With LED indicator	4PDT	DC	24V	MY4N 24DC S
			24V	MY4IN 24AC S
With LED indicator and test button	4PDT	AC	110/110V	MY4IN 100/110AC S
			220/240V	MY4IN 220/240AC S
		DC	12V	MY4IN 12DC S
			24V	MY4IN 24DC S

Bases & Clips

Type	For Relay	Part No.
DIN rail surface mounting	DPDT	PYF08AE
	4PDT	PYF14AE
3 Tier base		PYF14-ESS-B
Clips		PYCA1

Other coil voltages available on request.

LY Series

Contact rating: 10A (240V resistive load)

Plug-In Relays

Type	Contact Arrangement	Coil Type	Coil Voltage	Part No.
Standard	DPDT	DC	24V	LY2 24DC
	4PDT			LY4 24DC

Bases & Clips

Type	For Relay	Part No.
DIN rail surface mounting	DPDT	PTF08AE
	4PDT	PTF14AE
Clips		PYCA1

Other coil voltages available on request.

MK Series

Contact rating: 10A (240V resistive load)

Plug-In Relays

Type	Contact Arrangement	Coil Type	Coil Voltage	Part No.
With LED indicator and test button	DPDT	AC	110V	MKS2PINAC110
		DC	24V	MKS2PINDC24
	3PDT	AC	110V	MKS3PIN5AC110
		DC	24V	MKS3PIN5DC24

Bases & Clips

Type	For Relay	Part No.
DIN rail surface mounting	DPDT	PF083AE
	3PDT	PF113AN
Clips		PFC-A1

Other coil voltages available on request.

G2RS Series

Contact rating: 10A (240V resistive load)

Plug-In Relays

Type	Contact Arrangement	Coil Type	Coil Voltage	Part No.
With operation indicator	SPDT	AC	24V	G2R1SN 24AC
		DC	24V	G2R1SN 24DC
	DPDT	AC	24V	G2R2SN 24AC
With operation indicator & diode suppression	DPDT	DC	24V	G2R2SND 24DC
			24V	G2R2SNI 24DC
With LED indicator and test button	DPDT	AC	110V	G2R2SNI 110AC
			230V	G2R2SNI 230AC
			24V	G2R2SNI 24AC

Bases & Clips

Type	For Relay	Part No.
DIN rail surface mounting (Back connecting socket -PCB terminal)	SPDT	P2RF05E
	DPDT	P2RF08E

Other coil voltages available on request.

D-SERIES - Industrial Relay Modules

D-Series - DRI

Description	Coil Voltage	Output (A) Max	Contacts	Part No.
DRI 314024 Standard	24V DC	10A	1 CO	7760056297
DRI 314024LTD With LED + test button + freewheel diode		10A	1 CO	7760056315
DRI 314524 Standard	24V AC	10A	1 CO	7760056300
DRI 314524LT With LED + test button		10A	1 CO	7760056318
DRI 314615 Standard	115V AC	10A	1 CO	7760056301
DRI 314615LT With LED + test button		10A	1 CO	7760056319
DRI 314730 Standard	230V AC	10A	1 CO	7760056302
DRI 314730LT With LED + test button		10A	1 CO	7760056320
SDI 1CO F ECO				7760056348
SDI 1CO				7760056350

DRI - 2 Changover Contact Relays

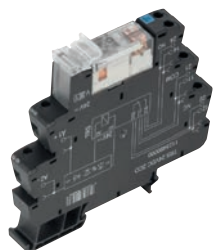
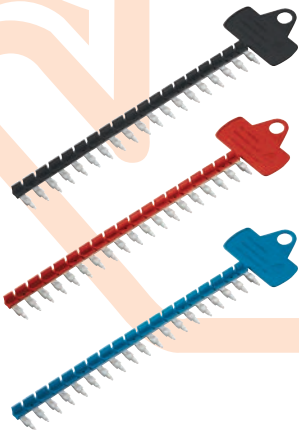
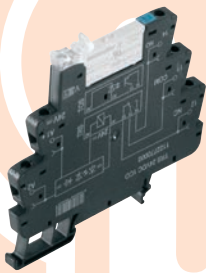
Description	Coil Voltage	Output (A) Max	Contacts	Part No.
DRI 424024 Standard	24V DC	5A	2 CO	7760056322
DRI 424024LTD With LED + test button + freewheel diode		5A	2 CO	7760056340
DRI 424524 Standard	24V AC	5A	2 CO	7760056325
DRI 424524LT With LED + test button		5A	2 CO	7760056343
DRI 424615 Standard	115V AC	5A	2 CO	7760056326
DRI 424615LT With LED + test button		5A	2 CO	7760056344
DRI 424730 Standard	230V AC	5A	2 CO	7760056327
DRI 424730LT With LED + test button		5A	2 CO	7760056345
SDI 2CO F ECO				7760056349
SDI 2CO				7760056351

D-Series - DRM

Description	Coil Voltage	Output (A) Max	Contacts	Part No.
DRM270024 Standard	24V DC	10A	2 CO	7760056051
DRM270024LT With LED + Test button		10A	2 CO	7760056069
DRM270524 Standard	24V AC	10A	2 CO	7760056055
DRM270524LT With LED + Test button		10A	2 CO	7760056073
DRM270615 Standard	115V AC	10A	2 CO	7760056057
DRM270615LT With LED + Test button		10A	2 CO	7760056075
DRM270730 Standard	230V AC	10A	2 CO	7760056058
DRM270730LT With LED + Test button		10A	2 CO	7760056076
SCM ECO 2CO				7760056263
DRM clip M (for DRM relay)				7760056108
FS 2CO				7760056106
DRM570024 Standard	24V DC	5A	4 CO	7760056079
DRM570024LT With LED + Test button		5A	4 CO	7760056097
DRM570524 Standard	24V AC	5A	4 CO	7760056083
DRM570524LT With LED + Test button		5A	4 CO	7760056101
DRM570615 Standard	115V AC	5A	4 CO	7760056085
DRM570615LT With LED + Test button		5A	4 CO	7760056103
DRM570730 Standard	230V AC	5A	4 CO	7760056086
DRM570730LT With LED + Test button		5A	4 CO	7760056104
SCM ECO 4CO				7760056264
DRM clip M (for DRM relay)				7760056108
FS 4CO				7760056107

Weidmüller 





D-SERIES - Industrial Relay Modules Continued

Termseries Screw Clamp

Description	Coil Voltage	Output (A) Max	Contacts	Part No.
TRS 24V DC 1CO	24V DC	6A	1CO	1122770000
TRS 24V UC 1CO	24V AC/DC	6A	1CO	1122780000
TRS 120V UC 1CO	115V AC	6A	1CO	1122810000
TRS 230V UC 1CO	230V AC	6A	1CO	1122820000
TRS 24-230V UC 1CO	24-230V AC	6A	1CO	1122850000
TRS 24V DC 2CO	24V DC	8A	2CO	1123490000
TRS 24V UC 2CO	24V AC/DC	8A	2CO	1123500000
TRS 120V UC 2CO	115V AC	8A	2CO	1123530000
TRS 230V UC 2CO	230V AC	8A	2CO	1123540000
TRS 24-230V UC 2CO	24-230V AC	8A	2CO	1123580000
TOS 24V DC 48V DC 0.1A	24V DC 48V DC	0.1A	1NO	1126940000
TOS 120V UC 48V DC 0.1A	120V UC 48V DC	0.1A	1NO	1126980000
TOS 230V UC 48V DC 0.1A	230V AC 48V DC	0.1A	1NO	1126990000
TOS 24-230V UC 48V DC 0.1A	24-230V AC 0-48V DC	0.1A	1NO	1127020000
TOS 24V DC 230V AC 1A	24V DC 230V AC	1A	1NO	1127410000
TOS 120V UC 230V AC 1A	120V UC 230V DC	1A	1NO	1127450000
TOS 230V UC 230V AC 1A	230V UC	1A	1NO	1127470000
TOS 24-230V UC 230V AC 1A	24-230V UC	1A	1NO	1127500000
ZQV 1.5N/R6.4/19 GE	Cross connections for termseries			1193690000
ZQV 1.5N/R6.4/19 SW	Cross connections for termseries			1391600000
ZQV 1.5N/R6.4/19 RT	Cross connections for termseries			1391610000
ZQV 1.5N/R6.4/19 BL	Cross connections for termseries			1391620000

Termseries Tension Clamp

Description	Coil Voltage	Output (A) Max	Contacts	Part No.
TRZ 24V DC 1CO	24V DC	6A	1CO	1122880000
TRZ 24V UC 1CO	24V UC	6A	1CO	1122890000
TRZ 120V UC 1CO	120V UC	6A	1CO	1122920000
TRZ 230V UC 1CO	230V UC	6A	1CO	1122930000
TRZ 24-230V UC 1CO	24-230V UC	6A	1CO	1122970000
TRZ 24V DC 2CO	24V DC	8A	2CO	1123610000
TRZ 24V UC 2CO	24V UC	8A	2CO	1123620000
TRZ 120V UC 2CO	120V UC	8A	2CO	1123650000
TRZ 230V UC 2CO	230V UC	8A	2CO	1123670000
TRZ 24-230V UC 2CO	24-230V UC	8A	2CO	1123700000
TOZ 24V DC / 48V DC 0.1A	24V DC 48V DC	0.1A	1NO	1127050000
TOZ 120V UC / 48V DC 0.1A	120V UC 48V DC	0.1A	1NO	1127090000
TOZ 230V UC / 48V DC 0.1A	230V UC 48V DC	0.1A	1NO	1127100000
TOZ 24-230V UC / 48V DC 0.1A	24-230V UC 48V DC	0.1A	1NO	1127130000
TOZ 24V DC / 230V AC 1A	24V DC 230V AC	1A		1127530000
TOZ 120V UC / 230V AC 1A	120V UC 230V AC	1A		1127580000
TOZ 230V UC / 230V AC 1A	230V UC	1A		1127590000
TOZ 24-230V UC / 230V AC 1A	24-230V UC	1A		1127620000

H3DK Series

DIN-rail mounted, standard 22.5mm-width solid state timer range. The H3DE series of timers provides a wide AC/DC power supply and time range to reduce the number of items.

Features

- H79 x W22.5 x D100mm
- DIN-rail mounting
- 24-230V AC/DC (except -H)
- Wide time setting range: 0.10s - 120h (except -H and -G), 8 ranges

Din Rail Mounted Timers

Operating Modes	Supply Voltage	Control OutPut	Time Setting Range	Part No.
Multi-functional Standard Timers				
ON-delay, flicker OFF start, flicker ON start, signal ON / OFF delay, signal OFF-delay, interval, signal ON / OFF delay, one-shot	12V DC	DPDT	0.1s - 120h	H3DK-M2 DC12
		SPDT	0.1s - 120h	H3DK-M1 AC/DC24/230
ON-delay, flicker ON start, interval, one-shot	24-230V AC/DC	DPDT	0.1s - 120h	H3DK-M2 AC/DC24/230
		SPDT	0.1s - 120h	H3DK-S1 AC/DC24/230
		DPDT	0.1s - 120h	H3DK-S2 AC/DC24/230
Twin Timer				
Flicker OFF start, Flicker ON start		SPDT	0.1 - 12s	H3DK-F AC/DC24/230
Star-delta Timer				
Star-delta		2x SPDT	1 - 120s	H3DK-G AC/DC24/230
Power OFF-delay Timer				
Signal OFF-delay	24V AC/DC	SPDT	1 - 120s	H3DK-H AC/DC24L
			0.1 - 12s	H3DK-H AC/DC24S
	48V AC/DC	SPDT	1 - 120s	H3DK-H AC/DC48L
			0.1 - 12s	H3DK-H AC/DC48S
100-120V AC	SPDT	1 - 120s	H3DK-H AC/DC100-120L	
		0.1 - 12s	H3DK-H AC/DC100-120S	
200-230V AC	SPDT	1 - 120s	H3DK-H AC/DC200-230L	
		0.1 - 12s	H3DK-H AC/DC200-230S	

H3YN Series

Features

- High repeat accuracy
 - 2% Short resetting time <0/1 sec
 - Contact rating 3A at 250V AC (resisted)
- Function: Miniature timer with multiple time ranges and multiple operating modes

H3YN Series

Type	Time Limit Contact	Voltage	Part No.
Long time range model 0.1 min to 10 hours	4PDT	24V AC	H3YN 41 24VAC
		230V AC	H3YN 41 230VAC



Zelio Time - Timer Relays

Features

- Compliant with international standards and certifications IEC 61812-1, EN 61812-1 UL, CSA, GL, RCM, EAC, CCC, China ROHS
- Wide power supply range from 24 to 240 V
- Single or multiple functions
- Single or multi timing ranges from 0.02s to 999 hrs
- Screw or spring connection terminals
- Relay or Solid-state output
- Diagnostic button and dial pointer LED indicator
- Module DIN rail mount, miniature plug-in and panel mount

RE22 Timers

Type	Voltage	Time Range	Relay Output	Part No.
On Delay	24-240V AC/DC	0.5sec-300hrs	1 C/O	RE22R1AMR
			2 C/O	RE22R2AMR
Asymmetrical		1 C/O	RE22R1MLMR	
			1 C/O	RE22R1KMR
OFF Delay		0.3sec-300sec	2 C/O	RE22R2KMR
			2 C/O	RE22R2DMR
Symmetrical	0.5sec-300hrs	1 C/O	RE22R1DMR	
		2 C/O	RE22R2QEMR	
Star Delta Timers	0.3sec-30sec	2 C/O	RE22R2QEMR	
		2 C/O	RE22R2QEMR	
Multifunction	0.5sec-300hrs	1 C/O	RE22R1MYMR	
		2 C/O	RE22R2MYMR	



5

TERMINALS & CONNECTORS

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Heavy Duty Connectors

Weidmüller RockStar	5.36
Harting	5.39

Terminal Strips

Weidmüller	5.41
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Distribution / Load Monitoring Terminals

Weidmüller	5.42
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W Series

With experience gained from 30 years in the manufacture and supply of terminals, the W Series has been produced as the second generation of TS35 DIN rail mounted terminals.

It has been completely re-designed to set new standards in connection technology with many features which make it easier, safer and more economical to use.

WEMID insulation material:

- Best tracking index - non tracking CTI 600
- Temperature resistant up to 120°C - no derating up to 75°C ambient temperature
- Self extinguishing - VO according to UL 94

Feed-Through Terminals

Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
WDU 2.5N	24	500	WQV	0.5...4	1.5...4	0.5...4	5	1023700000
			ZQV	0.5...4	1.5...4	0.5...4	5	1040800000
WDU 2.5	24	800	WQV or ZQV	0.5...4	1.5...4	0.5...4	5	1020000000
WDU 4	32	800	WQV or ZQV	0.5...6	1.5...6	0.5...6	6	1020100000
WDU 6	41	800	WQV	0.5...10	1.5...10	0.5...10	8	1020200000
WDU 10	57	1000	WQV	1.5...16	1.5...16	1.5...16	10	1020300000
WDU 16	76	1000	WQV	1.5...16	1.5...25	1.5...25	12	1020400000
WDU 35	125	1000	WQV	2.5...16	2.5...50	2.5...35	16	1020500000
WDU 70N	192	1000	WQV	10...16	10...95	10...70	20.5	9512190000
WDU 70/90	232	1000	WQV	16	16...120	16...95	27	1024600000
WDU 120/150	269	1000	WQV	-	35...150	35...150	32	1024500000

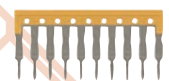
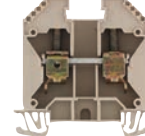
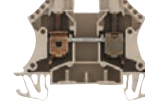
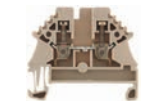
Accessories

Description	For Terminal	Part No.
End plates	WDU 2.5N	1060000000
	WDU 2.5, WDU 4, WDU 6, WDU 10	1050000000
	WDU 16, WDU 35	1050100000
End stop EW35	WEW 35/2	1061200000
Partition	WDU 2.5, WDU 4, WDU 6, WDU 10	1050100000

Cross Connections

Description	For Terminal	Type	Part No.
WQV	WDU 2.5N, WDU 2.5	2 Pole	1053660000
		3 Pole	1053760000
		4 Pole	1053860000
		10 Pole	1054460000
		2 Pole	1693800000
ZQV	WDU 2.5N/ZQV	3 Pole	1693810000
		4 Pole	1693820000
		10 Pole	1693880000
WQV	WDU 4	2 Pole	1051960000
		3 Pole	1054560000
		4 Pole	1054660000
WQV	WDU 6	10 Pole	1052060000
		2 Pole	1052360000
		3 Pole	1054760000
WQV	WDU 6	4 Pole	1054860000
		10 Pole	1052260000
		2 Pole	1052560000
WQV	WDU 10	3 Pole	1054960000
		4 Pole	1055060000
		10 Pole	1052460000
WQV	WDU 16	2 Pole	1053260000
		3 Pole	1055160000
		4 Pole	1055260000
WQV	WDU 16	10 Pole	1053360000
		2 Pole	1053060000
		3 Pole	1055360000
WQV	WDU 35	4 Pole	1055460000
		10 Pole	1053160000
		2 Pole	9512240000
WQV	WDU 70N	3 Pole	9512250000
		4 Pole	9531290000
		2 Pole	1063500000
WQV	WDU 70/90	3 Pole	1063600000
		2 Pole	1063300000
		3 Pole	1063400000

Weidmüller 



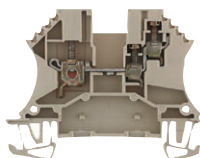
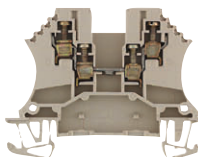
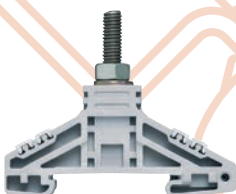
Cross-Connection System

Considerable assembly time can be saved by using the latest crossconnection methods.

Some W Series terminals can be cross-connected using either the standard WQV screwed crossconnections...

or the latest ZQV plug-in crossconnections which are even quicker and easier to fit.

Where a choice is available the appropriate part numbers are shown.



High Current Stud Terminals

W Series

Terminals	Rating		Stud Size	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
WFF 35	125	1000	M6	6...25	2.5...50	6...25	27	1028300000
WFF 70	192	1000	M8	16...70	2.5...120	16...70	32	1028400000
WFF 120	269	1000	M10	16...150	6...150	16...120	38	1028500000
WFF 185	353	1000	M12	25...240	10...240	25...185	55	1028600000
WFF 300	520	1000	M16	50...300	25...240	50...240	55	1028700000

Accessories

Description	For Terminal	Part No.	Price Per 100
Covers	WFF 35	1064460000	
	WFF 70	1064560000	
	WFF 120	1064660000	
	WFF 185 / WFF 300	1064760000	
	WFF 35	1067100000	
	WFF 70	1067200000	
Partitions	WFF 120	1067300000	
	WFF 185 / WFF 300	1067400000	

2 per terminal i.e. 1 each side

Cross-Connections

Description	For Terminal	Type	Part No.
WFF 35	WFF 35	2 Pole	1064900000
		3 Pole	1065400000
WFF 70	WFF 70	2 Pole	1065000000
		3 Pole	1065500000
WQL	WFF 120	2 Pole	1065100000
		3 Pole	1065600000
WFF 185	WFF 185	2 Pole	1065200000
		3 Pole	1065700000
WFF 300	WFF 300	2 Pole	1065300000
		3 Pole	1065800000

Stud Terminals

W Series

Terminals	Rating		Rail Type	Cable Size (mm ²)	Term. Width (mm)	Part No.
	A	V				
WF 6	125	1000	TS35	35	17.8	1780850000
WF 8	150	1000	TS35	50	22.8	1780860000
WF 10	269	1000	TS35	120	33.8	1780870000
WF 12	269	1000	TS35	120	33.8	1780880000

Accessories

Description	For Terminal	Part No.
Partition	WF 6	1781220000
	WF 8	1780900000
	WF 10 / 12	1780890000

Cross-Connections

For Terminals	Type	Part No.
WF8	2 Pole	1780990000
WF10	2 Pole	1781010000
WF12	2 Pole	1781030000

Double Entry Terminals

W Series

Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
WDU 1.5/ZZ	17.5	800	WQV or ZQV	0.5...2.5	1.5...2.5	0.5...1.5	5	1031400000
WDU 2.5/1.5/ZR	24	800	WQV or ZQV	0.5...4/2.5	1.5...4/2.5	0.5...4/1.5	5	1024700000
WDU 4/ZZ	32	800	ZQV	0.5...6	0.5...6	0.5...4	6	1905060000
WDU 4/ZR	32	800	ZQV	0.5...6	0.5...6	0.5...4	6	1905140000
WDU 10/ZR	57	800	WQV	1.5/0.5...16/6	1.5...4/16	1.5/0.5...16/4	10	1042400000

Cross-Connections

Description	For Terminal	Type	Part No.
WQV	WDU 1.5/ZZ WDU 2.5/ 1.5/ ZR	2 Pole	1053660000
		3 Pole	1053760000
		4 Pole	1053860000
		10 Pole	1054460000
ZQV	WDU 2.5/ 1.5/ ZR	2 Pole	1693800000
		3 Pole	1693810000
		4 Pole	1693820000
		10 Pole	1693880000
WDU 10 ZR	WDU 10 ZR	2 Pole	1052560000
		3 Pole	1054960000
		4 Pole	1055060000

Double Decker Terminals

W Series

Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
WDK 2.5	24	400	WQV	0.5...4	1.5...4	1.5...2.5	5	1021500000
			ZQV	0.5...4	1.5...4	1.5...2.5	5	1041100000
WDK 2.5V	24	400	WQV	0.5...4	1.5...4	1.5...2.5	5	1022300000
WDK 2.5/800V	24	800	Q	0.5...4	1.5...4	1.5...2.5	5	1029100000

Accessories

Description	For Terminal	Part No.
End plate	WDK 2.5 / ZQV,	1059100000
Partitions	WDK 2.5V, WDK 2.5	1058800000

Cross-Connections

Description	For Terminal	Type	Part No.
WQV	WDK 2.5	2 Pole	1053660000
		3 Pole	1053760000
		4 Pole	1053860000
		10 Pole	1054460000
ZQV	WDK 2.5 / ZQV	2 Pole	1693800000
		3 Pole	1693810000
		4 Pole	1693820000
		10 Pole	1693880000
Q	WDK 2.5	2 Pole	0369000000
		3 Pole	0369100000
		4 Pole	0369200000
		10 Pole	0369300000

Disconnect Test Terminals

W Series

Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
WTR 2.5	24	500	ZQV	0.5...4	1.5...4	0.5...4	5 no StB	1855610000
WTR 2.5 + STB 2.3	24	500	ZQV	0.5...4	1.5...4	0.5...2.5	5 2 StB	1855620000
WTR 2.5 / ZZ	14	400	ZQV	0.5...4	1.5...4	0.5...2.5	5 2 StB	1039900000
							6 no StB	7910210000
WTR 4	32	400	ZQV	0.5...6	1.5...6	0.5...4	6	1905090000
							6 no StB	7910180000
WTR 4 / ZZ	27	500	ZQV	0.5...6	1.5...6	0.5...4	6	1905090000
WDTR 2.5	10	400	VQB	0.5...4	1.5...4	0.5...2.5	6.2	9528070000
WDTR 2.5 / WE	10	400	VQB	0.5...4	1.5...4	0.5...2.5	6.2	9528090000

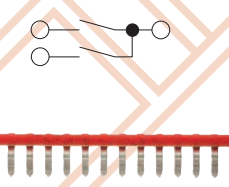
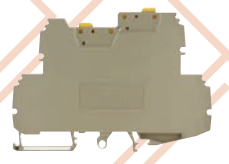
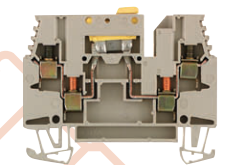
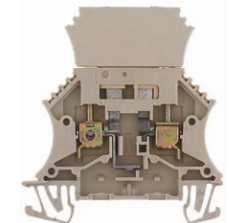
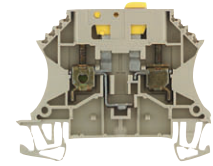
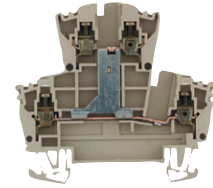
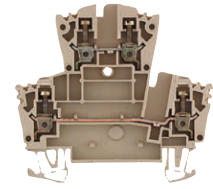
Accessories

Description	For Terminal	Part No.
End plates	WTR 2.5-4	1050000000
	WTR 2.5/ZZ	1074600000
	WTR 4/ZZ	1905150000
Partition	WTR 2.5-4 (except ZZ)	1050100000

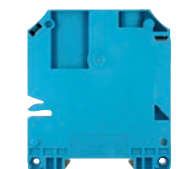
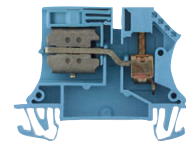
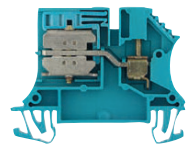
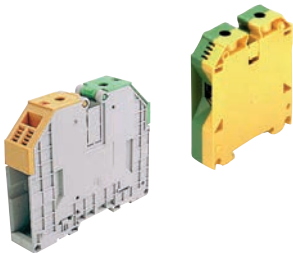
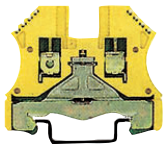
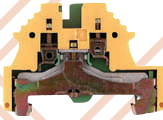
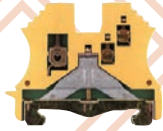
Cross-Connections

Description	For Terminal	Type	Part No.
ZQV	WTR 2.5	2 Pole	1693800000
		3 Pole	1693810000
		4 Pole	1693820000
		10 Pole	1693880000
ZQV	WTR 2.5 / ZZ	2 Pole	1608860000
		3 Pole	1608870000
		4 Pole	1608880000
		10 Pole	1608940000
VQB	WDTR 2.5 & WDTR 2.5 / WE	Blue 50 way comb	1633280000
		Red 50 way comb	1633290000
		Black 50 way comb	1635120000
ZQV	WTR 4 / WTR 4/ZZ	2 Pole	1758250000
		3 Pole	1762630000
		4 Pole	1762620000
		10 Pole	1758260000

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Earth Terminals

W Series

Terminals	Rating (V)	Cabel Size (mm)			Term. Width (mm)	Part No.
		Solid	Stranded	Flexible		
WPE 1.5/ZZ	690	0.5...2.5	1.5...2.5	0.5...1.5	5	1016500000
WPE 2.5/1.5/ZR	690	1.5...4/2.5	1.5...4/2.5	1.5...4/1.5	5	1016400000
WDK 2.5PE	400	0.5...4	1.5...4	0.5...2.5	5	1036300000
WPE 2.5N	500	0.5...4	1.5...4	0.5...4	5	1016200000
WPE 2.5	800	0.5...4	1.5...4	0.5...4	5	1010000000
WPE 4	800	0.5...6	1.5...6	0.5...6	6	1010100000
WPE 6	800	0.5...6	1.5...6	0.5...10	8	1010200000
WPE 10	1000	1.5...16	1.5...16	1.5...16	10	1010300000
WPE 10ZR	1000	1.5...16	1.5...16	1.5...16	12	1042500000
WPE 16	1000	1.5...16	1.5...16	1.5...16	12	1010400000
WPE 35	800	2.5...16	2.5...35 ⁶	2.5...35 ⁶	16	1010500000
WPE 70N	1000	10...16	10...70	10...70	20.5	9512200000
WPE 70/95	1000	16	16...95	16...95	27	1037300000
WPE 120/150	1000	-	35...150	35...150	32	1019700000

Accessories

Description	For Terminal Rails	Type	Part No.
Support block	All the above earth terminals	SH2	0494920000

Only required for isolation of mounting rails in totally insulated systems.

Isolating Neutral Terminals

W Series

Terminals	Rating		Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V	Solid	Stranded	Flexible		
WNT 2.5	24	400	0.5...4	1.5...4	0.5...4	5	1010680000
WNT 4	32	400	0.5...6	1.5...6	0.5...6	6	1010780000
WNT 6	41	400	0.5...10	1.5...10	0.5...10	8	1010880000
WNT 10	57	400	1.5...16	1.5...16	1.5...16	10	1010980000
WNT 16N	76	400	1.5...16	1.5...25	1.5...16	12	1019000000
WNT 35N	125	400	2.5...16	2.5...50	2.5...35	16	1718550000
WNT 70N	192	400	10...16	10...95	10...70	20.5	9512210000

Accessories

Description	For Terminal	Part No.	For Terminal	Type	Part No.
End plate	WNT 2.5... WNT 10	1050080000	WNT 2.5 ...	Cu (140A)	0348900000
Support plate	WNT 2.5... WNT 70N	1050280000	WNT 70N	CuZn (100A)	0259800000

Busbars

Fuse Terminals

W Series

Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
WSI 6	6.3	500	QL	0.5...10	1.5...10	0.5...10	8	1011000000
WSI 6/2	6.3	500	QL	0.5...10	1.5...10	0.5...10	12	1014000000

Accessories

Description	For Terminal	Part No.
End plate	WSI 6 & WSI 6/2	1050000000
Partition	WSI 6 & WSI 6/2	1050100000

Install partition after last WSI 6

Cross Connections

Description	For Terminal	Type	Part No.
QL	WSI 6	2 Pole	0194300000
		3 Pole	0194400000
		4 Pole	0194500000
		10 Pole	0338300000
		Screw M3 x5	1052100000
QL	WSI 6/2	2 Pole	0470700000
		3 Pole	0470800000
		4 Pole	0470900000
		10 Pole	0471000000
		Screw M3 x5	1052100000

Indicating Fuse Terminals

W Series

Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Type	Part No.
	A	V		Solid	Stranded	Flexible			
WSI 6 LD	6.3	500	QL	0.5...10	1.5...10	0.5...10	8	10-36V AC/DC	1011300000
								30-70V AC/DC	1012200000
								60-150V AC/DC	1012300000
								140-250V AC/DC	1012400000
WSI 6/2 with LED	6.3	500	QL	0.5...10	1.5...10	0.5...10	8	30-70V AC/DC	1014200000
								140-250V AC/DC	1014400000

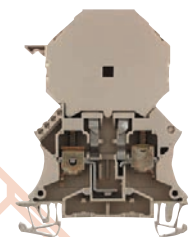
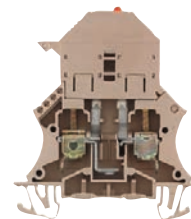
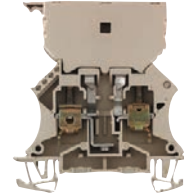
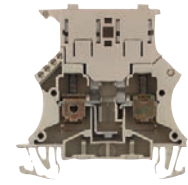
Accessories

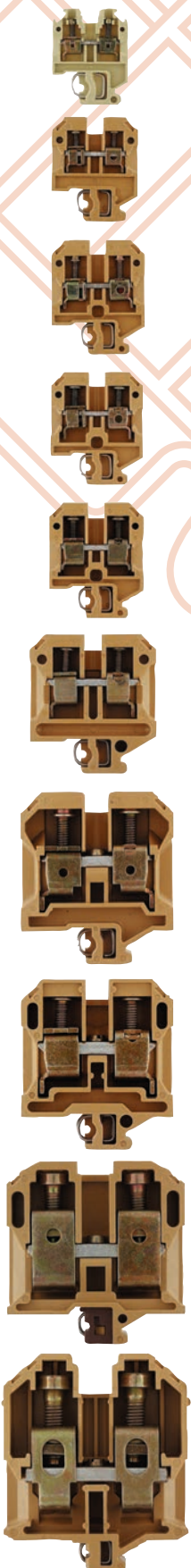
Description	For Terminal	Part No.
End plate	WSI 6 & WSI 6/2	1050000000
Partition	WSI 6 & WSI 6/2	1050100000

Cross Connections

Description	For Terminal	Type	Part No.
QL	WSI 6 LD	2 Pole	0194300000
		3 Pole	0194400000
		4 Pole	0194500000
		10 Pole	0338300000
		Screw M3 x5	1052100000
QL	WSI 6/2	2 Pole	0470700000
		3 Pole	0470800000
		4 Pole	0470900000
		10 Pole	0471000000
		Screw M3 x5	1052100000

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SAK Series

The SAK Series of terminals comprises of a vast range of well tried and tested terminals that have been specified and used throughout the world.

Versions are available for TS35 DIN rail, TS32 asymmetric DIN rail and the smaller TS15 micro rail. The SAK series terminal is also available in two different materials. A Thermosetting Plastic which is very resistant to mould and micro-organism growth and is most suited in applications where high continuous service temperature and high flammability levels may occur.

A Thermoplastic material Polyamide 66 which is flexible and unuseptable to fracture. These terminals are available in a wide range of colours - contact your local sales office for further details.

Feed-Through Terminals For TS32 DIN Rail

Terminal	Rating		Cabel Size (mm)			Term. Width (mm)	Type	Part No.
	A	V	Solid	Stranded	Flexible			
SAKD 2.5 N	24	500	0.5...4	0.5...2.5	0.5...4	5	Polyamide	0215560000
SAK 2.5	24	800	0.5...6	0.5...2.5	0.5...4	6	Melamine	0279620000
							Polyamide	0279660000
SAK 4	32	800	0.5...6	0.5...4	0.5...4	6.5	Melamine	0128320000
							Polyamide	0128360000
SAK 6 N	41	800	0.5...10	0.5...6	0.5...10	8	Melamine	0193220000
							Polyamide	0193260000
SAK 10	57	800	1.5...16	2.5...10	1.5...10	10	Melamine	0110020000
							Polyamide	0110060000
SAK 16	76	1000	2.5...16	4...16	2.5...16	12	Melamine	0271020000
							Polyamide	0271060000
SAK 35 N	125	1000	2.5...16	2.5...50	2.5...35	16	Melamine	0550620000
							Polyamide	0550660000
SAK 35	125	1000	6...16	6...50	10...35	18	Melamine	0303520000
							Polyamide	0303560000
SAK 70	192	1000	16	16...70	16...70	22	Melamine	0340820000
SAK 95	232	1000	10...16	10...120	10...95	28	Melamine	0550520000

Feed-Through Terminals For TS35 DIN Rail

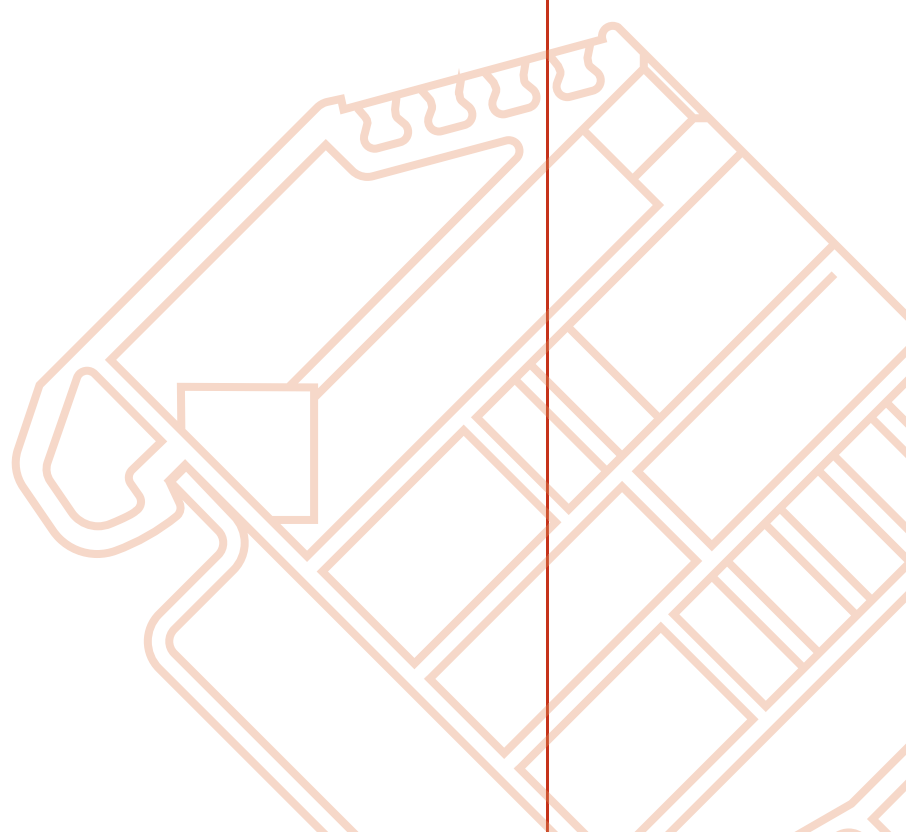
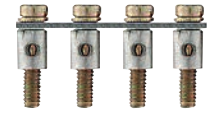
Terminal	Rating		Cabel Size (mm)			Term. Width (mm)	Type	Part No.
	A	V	Solid	Stranded	Flexible			
SAKD 2.5/35	24	500	0.5...4	0.5...2.5	0.5...4	5	Polyamide	0268860000
SAK 2.5/35	24	800	0.5...6	0.5...2.5	0.5...4	6	Melamine	0380420000
							Polyamide	0380460000
SAK 4/35	32	800	0.5...6	0.5...4	0.5...4	6.5	Melamine	0443620000
							Polyamide	0443660000
SAK 6/35	41	800	0.5...10	0.5...6	0.5...10	8	Melamine	0380520000
							Polyamide	0380560000
SAK 10/35	57	800	1.5...16	2.5...10	1.5...10	10	Melamine	0443720000
							Polyamide	0443760000
SAK 16/35	76	1000	2.5...16	4...16	2.5...16	12	Melamine	0380620000
							Polyamide	0380660000
SAK 35N/35	125	1000	2.5...16	2.5...50	2.5...35	16	Melamine	0608220000
							Polyamide	0608260000
SAK 35/35	125	1000	6...16	6...50	10...35	18	Polyamide	0380760000
SAK 70/35	192	1000	16...16	16...70	16...70	22	Polyamide	0139160000
SAK 95/35 KRG	232	1000	10...16	10...120	10...95	28	Melamine	0662220000

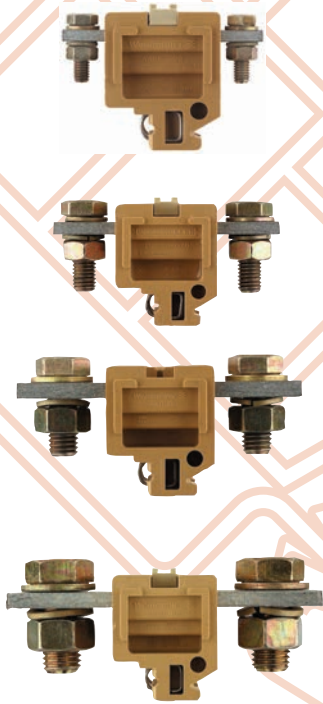
Accessories

Description	For Terminal	Rail	Type	Part No.
End plate	SAKD 2.5 N	TS32/35	Polyamide	0150960000
		TS32/35	Melamine	0279520000
	SAK 2.5	TS32	Polyamide	0279560000
		TS35	Polyamide	0460560000
		TS32/35	Melamine	0117920000
	SAK 4, SAK 6 N & SAK 10	TS32/35	Polyamide	0117960000
		TS32/35	Melamine	0271120000
	SAK 16	TS32/35	Polyamide	0271160000
		TS32/35	Melamine	0303620000
	SAK 35 & SAK 35 N	TS32/35	Polyamide	0303660000
		TS32	Melamine	0340920000
	SAK 70	TS35	Polyamide	0340960000
TS32/35		Melamine	0550920000	
Partition	SAKD 2.5 N	TS32/35	Polyamide	0191860000
		TS32/35	Melamine	0302820000
	SAK 2.5	TS32/35	Polyamide	0302860000
		TS32/35	Melamine	0130120000
	SAK 4, SAK 6 N & SAK 10	TS32/35	Polyamide	0130160000
		TS32/35	Melamine	0281120000
	SAK 16	TS32/35	Polyamide	0303660000
		TS32/35	Melamine	0304320000
	SAK 35 & SAK 35 N	TS32/35	Polyamide	0304360000

Cross-Connections

Description	For Terminal	Type	Part No.
Q	SAKD 2.5	2 Pole	0367800000
		3 Pole	0367900000
		4 Pole	0368000000
		10 Pole	0368100000
	SAK 2.5	2 Pole	0337000000
		3 Pole	0337100000
		4 Pole	0337200000
	SAK 4	10 Pole	0368700000
		2 Pole	0336700000
		3 Pole	0336800000
SAK 6 N	4 Pole	0336900000	
	10 Pole	0368800000	
	2 Pole	0456700000	
SAK 10	3 Pole	0456800000	
	4 Pole	0456900000	
	10 Pole	0457000000	
SAK 16	2 Pole	0457100000	
	3 Pole	0457200000	
	4 Pole	0457300000	
QL	SAK 35 N	10 Pole	0457400000
		2 Pole	0457500000
		3 Pole	0457600000
		4 Pole	0457700000
	SAK 35	10 Pole	0457800000
		2 Pole	0564900000
		3 Pole	0565000000
	SAK 70	4 Pole	0565100000
		10 Pole	0565200000
		Sleeve	0267000000
SAK 90	Screw M4x30	0267100000	
	Washer M4	0136400000	
	2 Pole	0123600000	
SAK 35	3 Pole	0123700000	
	4 Pole	0123800000	
	10 Pole	0338600000	
SAK 70	Sleeve	0267000000	
	Screw M4x30	0267100000	
	Washer M4	0136400000	
SAK 90	2 Pole	0345300000	
	3 Pole	0167000000	
	Sleeve	0345500000	
SAK 16	Screw M4x45	0345600000	
	Washer M5	0346100000	
	2 Pole	0551200000	
SAK 35	3 Pole	0407600000	
	4 Pole	0407700000	
	Sleeve	0551100000	
SAK 70	Screw M5x50	0630200000	





High Current Feed Through Terminals

SAK Series

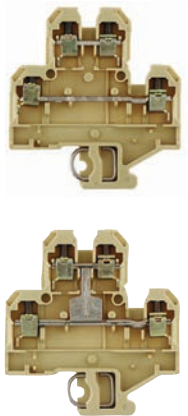
Terminals	Rating		Rail Type	Term. Width (mm)	Part No.
	A	V			
SAKG 28 II	125	1000	TS32	28	0170320000
SAKG 32 II	150	1000	TS32 TS35	32	0170420000 0637320000
SAKG 40 II	232	1000	TS32 TS35	40	0170520000 0637720000
SAKG 46 II	309	1000	TS32 TS35	46	0170620000 0637920000
SAKG 54 II	415	1000	TS32 TS35	54	0170720000 0638120000

Accessories

Description	For Terminal	Type	Part No.
End plate	SAKG 28 II & SAKG 32 II	TS32	0205200000
	SAKG 32 II...54 II	TS35	0180700000
Partition	SAKG 28 II & SAKG 32 II		0164600000
	SAKG 40 II...54 II		0179900000
Cover	SAKG 28 II	AH28	0326660000
	SAKG 32 II	AH32	0326760000
	SAKG 40 II	AH40	0326860000
	SAKG 46 II	AH54	0326960000

Cross-Connections

Description	For Terminal	Type	Part No.
SAKG 28 II		2 Pole	0551200000
		3 Pole	0407600000
		4 Pole	0407700000
SAKG 32 II		2 Pole	0194000000
		4 Pole	0194100000
SAKG 40 II	TS32	2 Pole	0409800000
		4 Pole	0409800000
SAKG 46 II	TS35	2 Pole	0211400000
		3 Pole	0247000000
SAKG 54 II		2 Pole	0444400000
		3 Pole	0264400000 0408000000



Double Decker Terminals

SAK Series

Terminals	Rating		Rail Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
DK 4 Q	32	500	TS32	0.5...4	0.5...4	0.5...4	6	0590060000
			TS35	0.5...4	0.5...4	0.5...4	6	0590160000
DK 4 QV	32	500	TS32	0.5...6	0.5...4	0.5...4	6	0590260000
			TS35	0.5...6	0.5...4	0.5...4	6	0363660000

Accessories

Description	For Terminal	Type	Part No.
End plate	DK 4 Q & DK 4 QV	Polyamide	1397160000
Partition	DK 4 Q & DK 4 QV	Polyamide	1058800000

Cross-Connections

Description	For Terminal	Type	Part No.
End plate	DK 4 Q & DK 4 QV	Polyamide	1397160000
Partition	DK 4 Q & DK 4 QV	Polyamide	1058800000

Spring Loaded Feed-Through Terminals

SAK Series

Terminals	Rating		Rail Type	Cabel Size (mm)		Term. Width (mm)	Part No.
	A	V		Solid	Flexible		
RSF 3	32	630	TS32	0.5...4	0.5...4	8	0497560000
			TS35	0.5...4	0.5...4	8	9501160000
RSF 1	57	500	TS32	0.5...10	0.5...10	11	0270320000

Accessories

Description	For Terminal	Rail	Part No.
End plate	RSF 3	TS32/TS35	0270460000
	RSF 1	TS32	0270420000
Partition	RSF 3	TS32/TS35	3877960000

Cross-Connections

Description	For Terminal	Type	Part No.
RSF 3		2 Pole	0194300000
		3 Pole	0194400000
		4 Pole	0194500000
		10 Pole	0338300000
		Sleeve	0248500000
QL		Screw	0303000000
		2 Pole	0267400000
		3 Pole	0267500000
RSF1		4 Pole	0267600000
		10 Pole	0341700000
		Sleeve	0285200000
		Screw	0292500000

Earth terminals - Shrouded

SAK Series

Terminals	Rail Type	Cabel Size (mm)			Term. Width (mm)	Part No.
		Solid	Stranded	Flexible		
EK 2.5N	TS32	0.5...4	0.5...2.5	0.5...4	6	0474360000
	TS35	0.5...4	0.5...2.5	0.5...4	6	0661060000
EK 4	TS32	0.5...6	0.5...4	0.5...4	8	0354560000
	TS35	0.5...6	0.5...4	0.5...4	6.5	0661160000
EK 6 / 35	TS35	0.5...10	1.5...6	0.5...10	8	0661260000
	TS32	0.5...10	1.5...6	0.5...10	10	0354660000
EK 10	TS35	0.5...10	1.5...6	0.5...10	10	0661360000
	TS32	2.5...16	2.5...16	2.5...16	12	0374660000
EK16	TS35	2.5...16	2.5...16	2.5...16	12	0190160000
	TS32	6...16	16...50	10...35	16	0354760000
EK 35	TS35	6...16	16...50	10...35	16	0661460000

Accessories

Description	For Terminal	Rail	Part No.
	EK 2.5 N	TS32	0302860000
Partition	EK 2.5/35, EK 6/35, EK 6/35 & EK 10	TS32 / TS35	0130160000
Support block	EK 2.5 N...EK 35	TS32 / TS35	0494920000

Only required for isolation of mounting rails in totally insulated systems.

Earth Terminals - Open

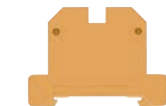
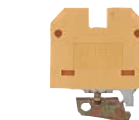
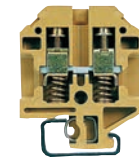
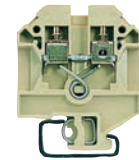
Earth Terminals - Open

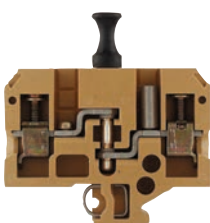
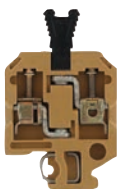
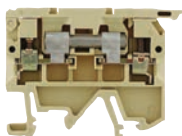
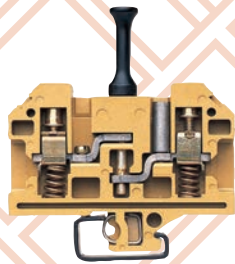
Terminals	Rail Type	Cabel Size (mm)			Term. Width (mm)	Part No.
		Solid	Stranded	Flexible		
EK 2	TS32	1.5...10	1.5...10	1.5...10	10	0323100000
SAKE 35	TS32	6...35	6...35	10...35	14	0144400000

Accessories

Description	For Terminal	Rail	Part No.
Support block	SAKE 35	TS32 / TS35	0494920000

Weidmüller 





Spring Loaded Disconnect Test Terminals

Terminals	Rating		Rail Type	Cabel Size (mm)		Term. Width (mm)	Type	Part No.
	A	V		Solid	Flexible			
	RSF 2	41		500	TS32			

Accessories			
Description	For Terminal	Type	Part No.
End plate	RSF 2	Melamine	0301420000

Disconnect Test Terminals

Terminals	Rating		Rail Type	Cabel Size (mm)		Term. Width (mm)	Type	Part No.
	A	V		Solid	Flexible			
	SAKR	10		400	TS32			
						Polyamide	0412160000	
DKT 4	10	400	TS32	0.5...4	1.5...4	0.5...4	Melamine (2 StB)	0412220000
							Polyamide (2 StB)	0412260000
DKT 4 V	10	400	TS32	0.5...4	1.5...4	0.5...4	Polyamide	0172160000
							Polyamide (2 StB)	0183360000
ASK 1	19	500	TS32/TS35	0.5...4	1.5...4	0.5...4	Polyamide	0687360000
							Polyamide	0687460000
SAKR-D	10	400	TS32	0.5...4	1.5...4	0.5...4	Polyamide	1304860000
							Polyamide	1304960000
SAKR-D	10	400	TS32	0.5...4	1.5...4	0.5...4	With empty DLS 2	0456360000
							With empty DLS 2	0413060000
SAKC 4	25	400	TS32	0.5...6	1.5...4	0.5...4	Mel. socket Hd. screws	0185760000
							Mel. socket Hd. screws	0340720000
SAKC 4	25	400	TS35	0.5...6	1.5...4	0.5...4	Mel. socket Hd. screws	0340620000
							Mel. socket Hd. screws	0357520000
SAKC 10	27	400	TS32	0.5...10	1.5...10	0.5...10	Mel. socket Hd. screws	0357620000
							Mel. one test socket	0324020000
SAKC 10	27	400	TS32	0.5...10	1.5...10	0.5...10	Mel. one test socket	0324120000
							Mel. two test sockets	1404520000
SAKC 10	27	400	TS35	0.5...10	1.5...10	0.5...10	Mel. one test socket	1404620000
							Mel. two test sockets	1404620000

Accessories			
Description	For Terminal	Type	Part No.
End plate	SAKR TS32	Melamine	0211320000
	SAKR TS32	Polyamide	0211360000
	DKT 4...4V	Polyamide	0687560000
	ASK 1	Polyamide	0380360000
	SAKR-D		0211360000
	SAKR-D	Melamine	0117920000
Partition	SAKC 4	Melamine	0146720000
	SAKR & SAKR-D		0297100000
	DKT 4, DKT 4V & ASK1		0607000000
	SAKC 4	Melamine	0130120000
	SAKC 4	Polyamide	0130160000
	SAKC 10	Melamine	0242920000

Cross-Connections			
Description	For Terminal	Type	Part No.
QB	SAKR, DKT 4 & SAKR-D	2 Pole	0482700000
		3 Pole	0482800000
		4 Pole	0482900000
		2 Pole	0461100000
QL	ASK 1	3 Pole	0461200000
		4 Pole	0461300000
	SAKC 4	2 Pole	0482700000
		3 Pole	0482800000
QL	SAKC 10	4 Pole	0482900000
		2 Pole	0135500000
		3 Pole	0135600000
		4 Pole	0135700000
		10 Pole Sleeve	0338500000
		Screw	0299700000
Washer	0362800000		

Three Tier Terminals

SAK Series

Terminals	Rating		Rail Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
DLI 2.5/35	24	250	TS35	0.5...4	0.5...2.5	0.5...2.5	6	1783820000
DLD 2.5/35	24	250	TS35	0.5...4	0.5...2.5	0.5...2.5	6	1784180000
DLA 2.5	17.5	250	TS35	0.5...4	0.5...2.5	0.5...2.5	6	1783560000

Accessories

Description	For Terminal	Type	Part No.
End plate	DLI 2.5/35 & DLA 2.5		1783550000
	DLD 2.5/35		1784210000
Partition	DLI 2.5/35, DLD 2.5/35 & DLA 2.5		0319160000

Cross-Connections

Description	For Terminal	Type	Part No.
Q	DLI 2.5/35, DLD 2.5/35 & DLA 2.5	2 Pole	1312500000
		3 Pole	1312600000
		4 Pole	1312700000
		10 Pole	1313100000

Fuse Terminals

SAK Series

Terminals	Rating		Fuse Type	Cabel Size (mm)		Term. Width (mm)	Rail Type	Part No.
	A	V		Solid	Flexible			
ASK 1	6.3	500	5 x 20mm without indicator	0.5...4	0.5...4	8	TS32/35	0474560000
SAKS 1	10	500	5 x 20mm without indicator	0.5...16	0.5...10	13	TS32	0191220000
			5 x 25mm without indicator	0.5...16	0.5...10	13	TS35	0501620000
			5 x 25mm with indicator	0.5...16	0.5...10	13	TS32	0191120000
SAKS 3	10	500	¼ x 1 inch to BS 1362 (red cap)	0.5...16	0.5...10	13	TS35	0667420000
			¼ x 1¼ inch to DEF59-96 Size 0	0.5...16	0.5...10	13	TS32	0248920000
			5 x 20mm without indicator	0.5...16	0.5...10	13	TS35	0667520000
KSKM 1	6.3	250	5 x 20mm without indicator	0.5...16	0.5...10	13	TS32	9509570000
KSKM 2	13	250	¼ x 1 inch to BS 1362	0.5...16	0.5...10	13	TS35	9509600000
							TS32	9509580000
KSKM 3	10	440	¼ x 1¼ inch to DEF59-96 Size 0	0.5...16	0.5...10	13	TS35	9509620000
SAKS 2	10	500	D Fuse E16	0.5...16	0.5...10	28	TS32	0206820000
							TS35	1368720000
SAKS 4	16	400	D Fuse E14	0.5...16	0.5...10	24	TS32	0321320000
SAKS 5	63	400	D Fuse E18	1.5...16	1.5...16	28	TS32	0359420000
							TS35	0502120000

Accessories

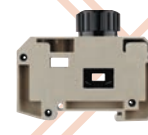
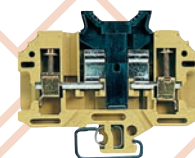
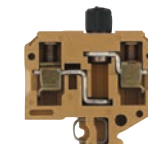
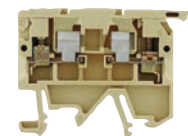
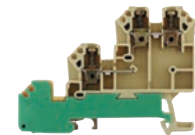
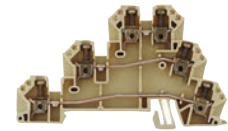
Description	For Terminal	Type	Part No.
End plate	ASK 1	TS32/35	0380360000
	SAKS 1 & SAKS 3	TS32/35	0191320000
	KSKM 1...KSKM 3	TS32/35	9509630000
Partition	SAKS 1 & SAKS 5	TS32/35	0607000000

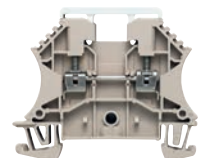
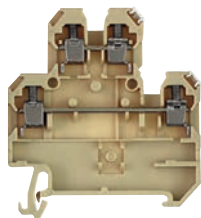
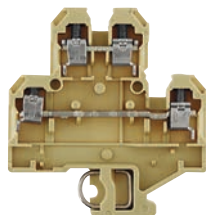
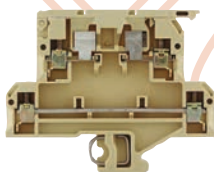
Cross-Connections

For Terminal	Type	Part No.
ASK 1	2 Pole comb	0461100000
	3 Pole comb	0461200000
	4 Pole comb	0461300000
SAKS 1, SAKS 3	2 Pole	0191400000
	3 Pole	0191500000
	4 Pole	0191600000
	10 Pole	0338800000
	Screw M3x6	0346200000
SAKS 2 & SAKS 5	2 Pole	0207800000
	4 Pole	0208000000
	10 Pole	0338900000
	Screw M4x6	0103300000
SAKS 4	2 Pole	0328000000
	3 Pole	0328100000
	4 Pole	0328200000
	10 Pole	0339000000
	Screw M4x6	0103300000

Gauge Rings

SAKS 2	P 16 / 10	0208900000
	P 14 / 2	0138000000
	P 14 / 4	0138100000
SAKS 4	P 14 / 6	0328600000
	P 14 / 10	0328700000
	P 18 / 20	0361800000
	P 18 / 25	0361900000
SAKS 5	P 18 / 35	0362000000
	P 18 / 50	0362100000





Indicating Fuse Terminals

SAK Series

Terminals	Rating		Fuse Type	Cabel Size (mm)		Term. Width (mm)	Type	Part No.
	A	V		Solid	Flexible			
ASK 1/35 LD	6.3	500	TS32/35	0.5...4	0.5...4	8	24V DC	0222760000
							24V AC	0222860000
							48V DC	0225260000
							48V AC	0225360000
							115V DC	0225460000
							115V AC	0225560000
							230V DC	0225660000
							230V AC	0225760000

Accessories

Description	For Terminal	Part No.
End plate	ASK 1/35 LD	038036000

Cross-Connections

Type	For Terminals	Type	Part No.
QB	ASK 1/35 LD	2 Pole comb	0461100000
		3 Pole comb	0461200000
		4 Pole comb	0461300000

Double Decker Fuse Terminals

SAK Series

Terminals	Rating		Fuse Type	Cabel Size (mm)		Term. Width (mm)	Rail Type	Part No.
	A	V		Solid	Flexible			
KDKS 1	6.3	500	5 x 20mm without indicator	0.5...4	0.5...4	8	TS32	9503300000
							TS35	9503310000

Accessories

Description	For Terminal	Rail Type	Part No.
End plate	KDKS 1	TS32/35	9503330000
Partition	KDKS 1	TS32	0607000000

Cross-Connections

Type	For Terminals	Type	Part No.
QB	KDKS 1	2 Pole comb	0461100000
		3 Pole comb	0461200000
		4 Pole comb	0461300000

Terminals for Temperature Measuring Circuits

Weidmuller thermocouple terminals are specially designed to transmit very small voltages in temperature measuring circuits. Special Busbars ensure that no false signals are transmitted in the terminal when temperature differences exist between the positive and negative paths.

SAK Series

Terminals	Rail	Thermocouple Type	Term. Width (mm)	Part No.
DK 4 Q/TC	TS32	K NiCr-Ni	6	1338260000
		T Cu-CuNi	6	1338160000
		J Fe-CuNi	6	1338060000
	TS35	K NiCr-Ni	6	1284160000
		T Cu-CuNi	6	1285660000
		J Fe-CuNi	6	1284060000
Terminals	Rail	Thermocouple Type	Term. Width (mm)	Part No.
WDU 2.5/TC	TS35	K NiCr-Ni	10.2	1024100000
		T Cu-CuNi	10.2	1024200000
		J Fe-CuNi	10.2	1024300000
		SR Pt 10% - Rh/Pt 13% - Rh	10.2	1024400000
		B Pt 10% Rh - Pt 6% Rh	10.2	1033700000
		E NiCr-CuNi	10.2	1033300000
		N NiSiI-Nicrosil	10.2	1041500000

Accessories

Description	Type	Rail	Type	Part No.
End plate	APDK40	TS32 / TS35	All	1397160000
	WAP 2.5-10	TS35	All	1050000000
	TW SAKS2 HP/DBR/2	TS32 / TS35	All	0607000000
Partition	VWEN	TS32 / TS35	All	1058800000
	WAP 16+35 WTW 2.5-10	TS35	All	1050100000
End Bracket	WEW35/2	TS35	All	1061200000

Ceramic High Temperature Feed Through Terminals

These are designed for high temperature applications, for example in fire hazards. For this purpose all materials have been carefully selected.

Housing: 'Steatite' C22/IEC6723
 Current bar: Copper
 Cross Connection: Copper

Where Earth terminals are required in high temperature applications the EK2 (032311) should be used.

Fire Rated - 250°C

Terminals	Rating		Rail Type	Cabel Size (mm)		Part No.
	A	V		Solid	Flexible	
SAKK 4	32	800	TS32	0.5...6	0.5...4	1598080000
SAKK 10	57	800	TS32	2.5...16	2.5...10	1598090000

Accessories

Description	For Terminals	Part No.
End plate	SAKK 4 & SAKK 10	9502630000
End bracket	SAKK 4 & SAKK 10	0445600000

Cross-Connections

For Terminals	Type	Part No.	
QL	SAKK 4	2 Pole	9502540000
		3 Pole	9502550000
		4 Pole	9502560000
		10 Pole	9502570000
		Sleeve	9502580000
		Screw	9503280000
QL	SAKK 10	2 Pole	9502650000
		3 Pole	9502660000
		4 Pole	9502670000
		10 Pole	9502680000
		Sleeve	9502690000
		Screw	9503280000

Fire Rated - 750°C

Terminals	Rating		Rail Type	Cabel Size (mm)		Part No.
	A	V		Solid	Flexible	
SAKK 4	36	750	TS32	0.5...6	0.5...4	9502600000
SAKK 10	65	750	TS32	2.5...16	2.5...10	9502610000

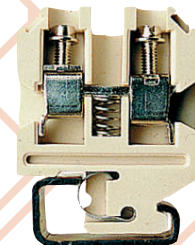
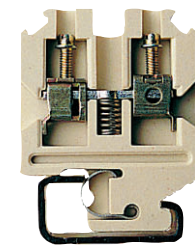
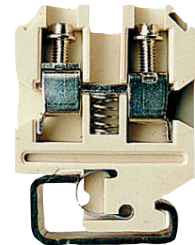
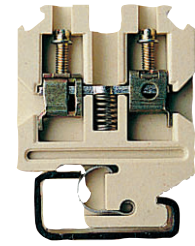
Accessories

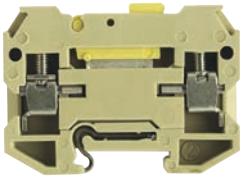
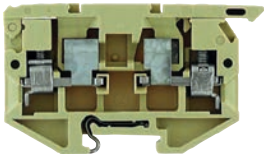
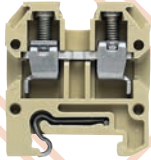
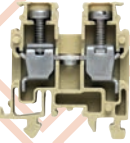
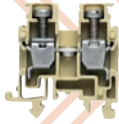
Description	For Terminals	Part No.
End plate	SAKK 4 & SAKK 10	9502630000
End bracket	SAKK 4 & SAKK 10	0445600000

Cross-Connections

For Terminals	Type	Part No.	
QL	SAKK 4	2 Pole	9502540000
		3 Pole	9502550000
		4 Pole	9502560000
		10 Pole	9502570000
		Sleeve	9502580000
		Screw	9503280000
QL	SAKK 10	2 Pole	9502650000
		3 Pole	9502660000
		4 Pole	9502670000
		10 Pole	9502680000
		Sleeve	9502690000
		Screw	9503280000

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Feed-Through Terminals

SAK Series

Terminals	Rating		Rail Type	Cabel Size (mm)			Type	Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible			
AKZ 1.5	17.5	250	TS15	0.5...2.5	1.5	0.5...1.5	Polyamide	5	0340460000
AKZ 2.5	24	250	TS15	0.5...4	1.5...2.5	0.5...2.5	Polyamide	5	0697160000
AKZ 4	32	400	TS15	0.5...4	1.5...2.5	0.5...4	Melamine	6	0294320000
						Polyamide	6	0294360000	

Accessories

Description	For Terminals	Rail	Type	Part No.
End plate	AKZ 1.5	TS15	Polyamide	0340560000
	AKZ 2.5	TS15	Polyamide	0697360000
	AKZ 4	TS15	Melamine	0294420000
Partition	AKZ 2.5	TS15	Polyamide	0294460000
			Melamine	0318560000
End bracket	AKZ 4	TS15	Melamine	0118900000
			Polyamide	0348260000

Cross-Connections

Description	For Terminals	Type	Part No.
Q	AKZ 1.5 & AKZ 2.5	2 Poles	0368200000
		3 Poles	0368300000
		4 Poles	0368400000
		10 Poles	0368500000
		2 Poles	0336400000
AKZ 4	3 Poles	0336500000	
	4 Poles	0336600000	
	10 Poles	0368600000	

Earth Terminals

SAK Series

Terminals	Rail Type	Cabel Size (mm)			Type	Part No.
		Solid	Stranded	Flexible		
AKE 2.5	TS15	0.5...4	1.5...2.5	0.5...2.5	Polyamide Green/ Yellow	1303360000

Fuse Terminals

SAK Series

Terminals	Rating		Fuse Type	Cabel Size (mm)			Type	Part No.
	A	V		Solid	Stranded	Flexible		
ASK 1/15	6.5	500	TS15	0.5...4	1.5...4	0.5...4	5 x 20mm without indicator	0376860000

Accessories

Description	For Terminals	Rail	Type	Part No.
End plate	ASK 1	TS15	Polyamide	0380360000
End bracket	ASK 1	TS15	Polyamide	0382860000

Cross-Connections

Description	For Terminals	Type	Part No.
QB comb	ASK 1	2 Poles	0461100000
		3 Poles	0461200000
		4 Poles	0461300000

Disconnect Test Terminal

SAK Series

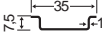


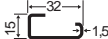
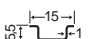
Terminals	Rating		Rail Type	Cabel Size (mm)			Type	Part No.
	A	V		Solid	Stranded	Flexible		
SAKR	10	400	TS15	0.5...4	1.5...4	0.5...4	(2 StB) Polyamide	0412860000
							Polyamide	0412760000

Accessories

Description	For Terminals	Rail	Type	Part No.
End plate	SAKR	TS15	Polyamide	0211360000
End bracket	SAKR	TS15	Polyamide	0382860000

Mounting Rails

Din Rails

Type	Length	Material	Part No.
TS 35 x 7.5 	2m	Steel	0383400000
		Slotted steel (M6 Slots)	0514570000
		Slotted steel (M5 Slots)	0514500000
TS 35 x 15/2.3 	2m	Aluminium	0330800000
		Steel	0383410000
TS 35 x 15 	2m	Slotted steel (M5 Slots)	0514510000
TS 32 	2m	PVC grey	0514300000
		Steel	0122800000
TS 15 	2m	Slotted steel	0514400000
		Steel	0514200000
		Slotted steel	0117500000

Assemble Support Rails

Type	Length	Material	Part No.
TAS 20	2m	Steel	0316400000
Fixing nut and screw M5			0433500000

End Brackets for TS 35

Type	Use With	Part No.
WEW 35/1	W Series - WDU 16 and up	1059000000
WEW 35/2	W Series - all except WDU 2.5 N	1061200000
EW 35	All types	0383560000

End Brackets for TS 32

Type	Use With	Part No.
EWK 1	Up to SAK 10	0206160000
EWK 2	SAK 16 and up	0199360000
EWK 1 for slotted TS 32	All types when fitted on slotted TS32 rail	0495160000
SST 3 locking pin		0152700000

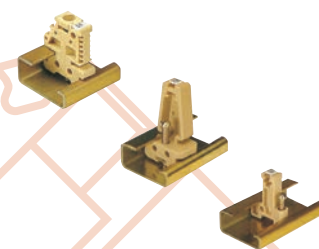
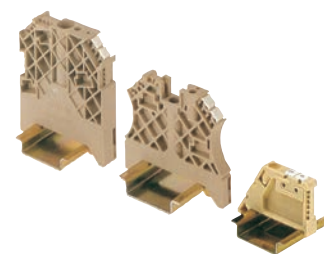
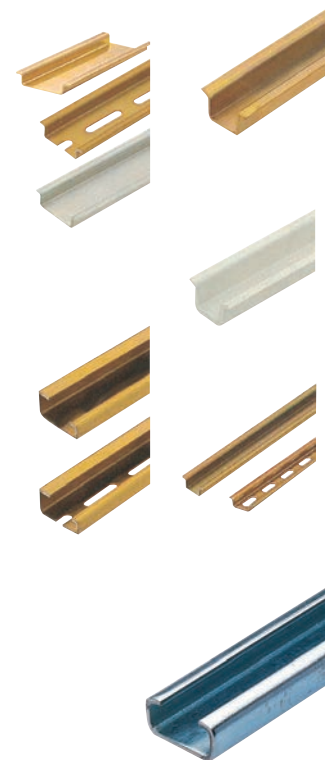
End Brackets for TS 15

Type	Use With	Part No.
EW 15	All TS15 types	0382860000
SST 1.2 locking pin		0306600000

Angled Support Bracket

Type	Part No.	
TSTW 35° (M5)	0178100000	
TSTW 35° (M6)	0164000000	
Fixing screw	M5 x 8	0295900000
	M6 x 8	0642600000
	M6 x 12	0353500000

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Terminal Markers

Weidmüller terminals can be marked using various marking systems, but the most commonly used are the Dekafix system or the WS type terminal markers.



Dekafix marking tags are economical and easy to use giving a clear and secure method of marking terminals.

They come in a wide range of standard printed letter or number sequences and are available in widths up to 8mm.

They can also be supplied unprinted for marking by hand.

WS marking tags are available in a range of sizes that are generally larger.

They are more suitable for detailed marking sequences which can be printed to order.

They can also be supplied unprinted for marking by hand.

Terminal Markers type - WS

Unprinted

Unprinted	Size (mm)	Quantity per Sheet	Part No.
WS 10/5 White	10 x 5	144	1635000000
WS 12/5 White	12 x 5	144	1609860000
WS 12/6 White	12 x 6	120	1609900000
WS 12/6.5 White	12 x 6.5	108	1609920000
WS 15/5 White	15 x 5	96	1609880000

Customised Markers

We can also provide a service for custom printing terminal markers to your exact specification. Printing is carried out using the latest computer based equipment giving excellent quality and accuracy.

Please note:

When ordering specially printed tags clear details of printing requirements must be provided with the order. Standard forms can be provided for this purpose if required.

Contact your local sales office for details:

Terminal Markers Type - Dekafix

Dekafix - Consecutive Horizontal

Type	For Terminal Width (mm)	Type	Part No.	
1...50 or 51...100 to 951...999 (20 print variations)	≥ 5	DEK 5	047346	<input type="checkbox"/>
	≥ 6	DEK 6	046866	<input type="checkbox"/>
	≥ 6.5	DEK 6.5	046816	<input type="checkbox"/>
1...50 or 11...20 to 91...100 (DEK 6 201...210) (10 print variations)	≥ 5	DEK 5	052306	<input type="checkbox"/>
	≥ 6	DEK 6	051896	<input type="checkbox"/>
	≥ 6.5	DEK 6.5	051906	<input type="checkbox"/>
	≥ 8	DEK 8 (to maximum 250)	127696	<input type="checkbox"/>

Dekafix - Consecutive Horizontal

Type	For Terminal Width (mm)	Type	Part No.	
1 or 2 to 200 (200 print variations)	≥ 5	DEK 5	052266	<input type="checkbox"/>
	≥ 6	DEK 6	052696	<input type="checkbox"/>
A or B to Z (26 print variations)	≥ 5	DEK 5	052276	<input type="checkbox"/>
L1 or L2 to L3 (3 print variations)	≥ 5	DEK 5	052236	<input type="checkbox"/>

Dekafix - Consecutive Vertical

Type	For Terminal Width (mm)	Type	Part No.	
1...50 or 51...100 to 951...999 (20 print variations)	≥ 5	DEK 5	047356	<input type="checkbox"/>
	≥ 6	DEK 6	046876	<input type="checkbox"/>
	≥ 6.5	DEK 6.5	046826	<input type="checkbox"/>
1...50 or 11...20 to 91...100 (DEK 6 201...210) (10 print variations)	≥ 5	DEK 5	046066	<input type="checkbox"/>
	≥ 6	DEK 6	013336	<input type="checkbox"/>
	≥ 6.5	DEK 6.5	040736	<input type="checkbox"/>
	≥ 8	DEK 8	128966	<input type="checkbox"/>

Dekafix - Consecutive Vertical

Type	For Terminal Width (mm)	Type	Part No.	
A or B to Z (26 print variations)	≥ 5	DEK 5	013296	<input type="checkbox"/>

Dekafix - White Unprinted

Type	For Terminal Width (mm)	Type	Part No.	
Unprinted	≥ 5	DEK 5	0854490000	
	≥ 6	DEK 6	1011320000	
	≥ 6.5	DEK 6.5	1046340000	
	≥ 8	DEK 8	1046350000	

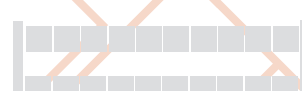
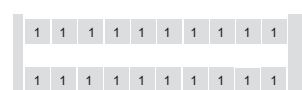
Dekafix - Coloured Unprinted

Type	For Terminal Width (mm)	Type	Part No.	
Unprinted	≥ 5	DEK 5	047339	<input type="checkbox"/>
	≥ 6	DEK 6	046859	<input type="checkbox"/>
	≥ 6.5	DEK 6.5	046809	<input type="checkbox"/>

Marking Pen

Type	Part No.
Black pen for marking blank markets by hand	0508401694

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Part No. Completion
When ordering complete the Part No. by adding the following:-

Insert last number of sequence



Fuses

Non indicator Cartridge Fuse 250V 20mm x 5mm

Type	Rating A	Characteristics	Quantity	Part No.
G 20/0.10A/F	0.10	Quick-acting	10	0430300000
G 20/0.20A/F	0.20	Quick-acting	10	0430400000
G 20/0.25A/F	0.25	Quick-acting	10	0430500000
G 20/0.50A/F	0.50	Quick-acting	10	0430600000
G 20/0.63A/F	0.63	Quick-acting	10	0439000000
G 20/1.00A/F	1.00	Quick-acting	10	0430700000
G 20/1.60A/F	1.60	Quick-acting	10	0430800000
G 20/2.00A/F	2.00	Quick-acting	10	0430900000
G 20/2.50A/F	2.50	Quick-acting	10	0431000000
G 20/3.15A/F	3.15	Quick-acting	10	0431100000
G 20/4.00A/F	4.00	Quick-acting	10	0431200000
G 20/5.00A/F	5.00	Quick-acting	10	0431300000
G 20/6.30A/F	6.30	Quick-acting	10	0431400000

Indicator Cartridge Fuse 250V 25mm x 5mm

Type	Rating A	Characteristics	Quantity	Part No.
G 25/0.25A/M GE	0.25	Medium time-lag	10	0546900000
G 25/0.50A/M WS	0.50	Medium time-lag	10	0510300000
G 25/0.80A/M GR	0.80	Medium time-lag	10	0646400000
G 25/1.00A/M RT	1.0	Medium time-lag	10	0265800000
G 25/2.00A/F BL	2.0	Quick-acting	10	0192700000
G 25/4.00A/F BR	4.0	Quick-acting	10	0192800000
G 25/6.30A/F GN	6.30	Quick-acting	10	0192900000
G 25/10.0A/M RT	10.00	Medium time-lag	10	0193100000

D 01 Fuse E14 Indicating Neozed Fuse 380/415V

For Terminal	Rating A	Fuse	Part No.	Gauge Ring	Part No.
SAKS 4	2	E 14/2	0137400000	P 14/2 2A	0138000000
	4	E 14/4	0137500000	P 14/4 4A	0138100000
	6	E 14/6	0328300000	P 14/6 6A	0328600000
	10	E 14/10	0328400000	P 14/10 10A	0328700000
	16	E 14/16	0328500000	-	-

D 02 Fuse E18 Neozed Fuse 400V

For Terminal	Rating A	Fuse	Part No.	Gauge Ring	Part No.
SAKS 5	20	E 18/20	0361300000	P 18/20 20A	0361800000
	25	E 18/25	0361400000	P 18/25 25A	0361900000
	35	E 18/35	0361500000	P 18/35 35A	0362000000
	50	E 18/50	0361600000	P 18/50 50A	0362100000
	63	E 18/63	0361700000	-	-

D Fuse E16 Cartridge Fuse 500V

For Terminal	Rating A	Fuse	Part No.	Gauge Ring	Part No.
SAKS 2	10	E 16/10	0208500000	P 16/10 10A	0208900000
	25	E 16/25	0208800000	-	-

Covers

ADP1 Covers / HP1 Holding Plate

For Terminal	Types	Type	Part No.
SAK D2.5N	SAK 2.5	ADP1 cover	0485200000
SAK 2.5/35	EK 2.5N	HP1 holding plate	0485560000

ADP2 Covers / HP2 Holding Plate

For Terminal	Types	Type	Part No.
SAK 4	EK 2.5 N	AD2 cover	0485300000
SAK 4/35	EK 4		
SAK 6	EK 4/35		
SAK 6 N	EK 6/35		
SAK 6/35	EK 10		
SAK 10	EK 10/35	HP2 holding plate	0485660000
SAK 10/35	WPE 2.5-10		
SAK R	WDU 2.5-10		
SAK RD	WTR		
DK 4			

ADP3 Covers / HP3 Holding Plate

For Terminal	Types	Type	Part No.
SAK 16	EK 35	AD3 cover	0485400000
SAK 16/35	WPE 16-35		
SAKC 4	WDU 16-35		
SAK 35/35	WTR		
SAKC 10			
SAK 70			
SAKS 1		HP3 holding plate	0485760000
SAK 70/35			
SAKS 2			
SAKS 3			
SAKS 4			
SAKS 5			
SAKS 95 (HP3 not required)			

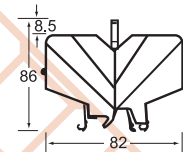
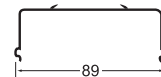
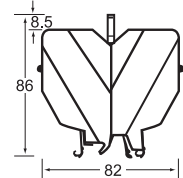
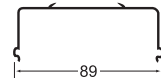
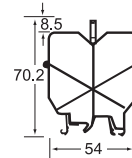
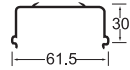
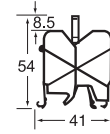
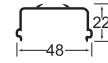
ADP3 Covers / HP4 Holding Plate

For Terminal	Types	Type	Part No.
SAKB 10	SAKT 1 ASK 1	ADP3 cover	0485400000
SAKA 10	SAKT 2	HP4 holding plate	0485860000

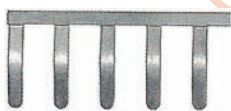
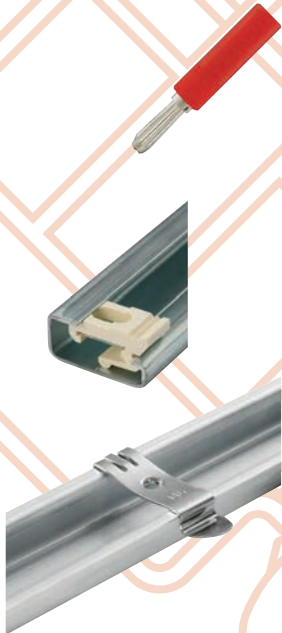
Covers

For Terminal Types	Type	Part No.
SAKG 28	AH28	0326660000
SAKG 32/70	AH32	0326760000
SAKG 40	AH40	0326860000
SAKG 46	AH46	0326960000

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Miscellaneous

Test Plugs

Type	Plug Part No.	Socket Part No.
PS 2.3 (Ø2.3)	0180400000	0280600000
PS4 (Ø4)	0299600000	0169900000

Mounting Bases

Type	Rail	Thread	Colour	Part No.
MB 4	TS32	M4	Blue	0480760000
MB 3/5	TS32	M3 / M5	Cream	0503500000
MB 5/3	TS32	M5 / M3	Black	0553400000
MB 4/6	TS32	M4 / M6	Cream	1593470000
FM 4	TS35	M4	-	0687900000
FM 5	TS35	M5	-	0636800000
FM 6	TS35	M6	-	0636900000

Cross-Connection Combs QB

Type	Pitch (mm)	Part No.	Ins. profile Part No.
QB 58 Straight	8	0545400000	0546000000
QB 58 Angled	8	0545300000	0546000000
QB 75 Straight	6	0535200000	0526700000
QB 75 Angled	6	0526400000	0526700000
QB 25 Straight	6.5	0134000000	4119640000

Marker Bases

Type	Description	Part No.
SchT5S	Carrier	1631930000
	Paper label	1631920000
	Cover	1631940000
SchT5	Carrier	0292460000
	Paper label	1607710000
	Cover	0294000000

SNK Series Terminals

Feed Through Terminals

Terminal	Rating A	Term. Width (mm)	Colour	Pack Qty.	Part No.
ZS4	32	5.2	● Grey	50	1SNK505010R0000
ZS4-BL	32	5.2	● Blue	50	1SNK505020R0000
ZS6	41	6	● Grey	50	1SNK506010R0000
ZS6-BL	41	6	● Blue	50	1SNK506020R0000
ZS10	57	8	● Grey	50	1SNK508010R0000
ZS10-BL	57	8	● Blue	50	1SNK508020R0000
ZS16	76	10	● Grey	25	1SNK510010R0000
ZS16-BL	76	10	● Blue	25	1SNK510020R0000
Closed Block					
ZS35	125	16	● Grey	20	1SNK516010R0000
ZS35-BL	125	16	● Blue	20	1SNK516020R0000
ZS70	192	22	● Grey	10	1SNK522010R0000
ZS70-BL	192	22	● Blue	10	1SNK522020R0000
ZS95	232	26	● Grey	10	1SNK526010R0000
ZS95-BL	230	26	● Blue	10	1SNK526020R0000

Earth Terminals

Terminal	Term. Width (mm)	Pack Qty.	Part No.
ZS4-PE	5.2	20	1SNK505150R0000
ZS6-PE	6	20	1SNK506150R0000
ZS10-PE	8	20	1SNK508150R0000
ZS16-PE	10	20	1SNK510150R0000
Closed Block			
ZS35-PE	16	20	1SNK516150R0000
ZS70-PE	22	10	1SNK522150R0000
ZS95-PE	26	10	1SNK526150R0000

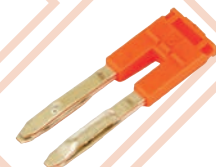
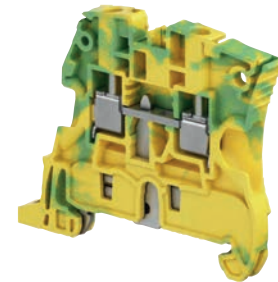
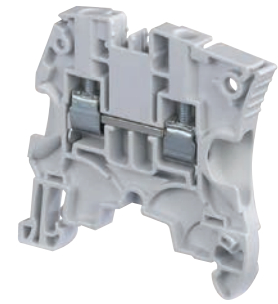
Accessories

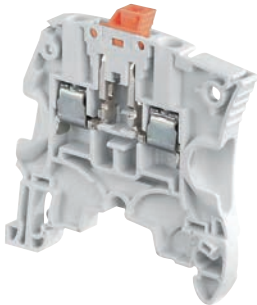
Description	For Terminals	Colour	Pack Qty.	Part No.
End plates	ZS4...ZS16	● Dark Grey	20	1SNK505910R0000

Cross-Connections

Type	For Terminal	Pitch (mm)	Type	Part No.
JB5-2...JB5-50	ZS4...	5	2 Pole	1SNK905302R0000
			3 Pole	1SNK905303R0000
			4 Pole	1SNK905304R0000
			5 Pole	1SNK905305R0000
			10 Pole	1SNK905310R0000
			50 Pole	1SNK905350R0000
JB6-2...JB6-50	ZS6...	6	2 Pole	1SNK906302R0000
			3 Pole	1SNK906303R0000
			4 Pole	1SNK906304R0000
			5 Pole	1SNK906305R0000
			10 Pole	1SNK906310R0000
			50 Pole	1SNK906350R0000
JB8-2...JB8-10	ZS10...	8	2 Pole	1SNK908302R0000
			3 Pole	1SNK908303R0000
			4 Pole	1SNK908304R0000
			5 Pole	1SNK908305R0000
			10 Pole	1SNK908310R0000
			2 Pole	1SNK910302R0000
JB10-2...JB10-10	ZS16...	10	3 Pole	1SNK910303R0000
			4 Pole	1SNK910304R0000
			5 Pole	1SNK910305R0000
			10 Pole	1SNK910310R0000
			2 Pole	1SNK916302R0000
			3 Pole	1SNK916303R0000
JB16-2...JB16-10	ZS35...	16	4 Pole	1SNK916304R0000
			5 Pole	1SNK916305R0000
			10 Pole	1SNK916310R0000
			2 Pole	1SNK922302R0000
			3 Pole	1SNK922303R0000
			5 Pole	1SNK922305R0000
JB22-2...JB22-10	ZS70...	22	10 Pole	1SNK922310R0000
			2 Pole	1SNK926302R0000
			3 Pole	1SNK926303R0000
			5 Pole	1SNK926305R0000
			10 Pole	1SNK926310R0000
			JB26-2...JB26-10	ZS95...
3 Pole	1SNK926303R0000			
5 Pole	1SNK926305R0000			
10 Pole	1SNK926310R0000			

ABB





Double Decker Terminals

SNK Series

Terminal	Rating A	Term. Width (mm)	Colour	Pack Qty.	Part No.
ZS4-D2	29	5.2 (2 circuits)	● Grey	50	1SNK505210R0000
ZS6-D2	41	6 (2 circuits)	● Grey	50	1SNK506210R0000

Accessories

Description	For Terminals	Colour	Pack Qty.	Part No.
ES4-D2 End Section	ZS4-D2 / ZS6-D2	● Dark Grey	20	1SNK505960R0000

Cross-Connections

Type	For Terminal	Pitch (mm)	Type	Part No.
JB5-2...JB5-50	ZS4-D2	5	2 Pole	1SNK905302R0000
			3 Pole	1SNK905303R0000
			4 Pole	1SNK905304R0000
			5 Pole	1SNK905305R0000
			10 Pole	1SNK905310R0000
JB6-2...JB6-50	ZS6-D2	6	50 Pole	1SNK905350R0000
			2 Pole	1SNK906302R0000
			3 Pole	1SNK906303R0000
			4 Pole	1SNK906304R0000
			5 Pole	1SNK906305R0000
10 Pole	1SNK906310R0000			
50 Pole	1SNK906350R0000			

Disconnect Terminal Block with Blade

Terminal	Rating A	Term. Width (mm)	Colour	Pack Qty.	Part No.
ZS4-S	25	5.2	● Grey	50	1SNK505310R0000
ZS4-S-BL	25	5.2	● Blue	50	1SNK505320R0000
ZS4-S-OR	25	5.2	● Orange	50	1SNK505330R0000
ZS4-S-T2	25	5.2 Ø2mm test socket	● Grey	50	1SNK505311R0000

Accessories

Description	For Terminals	Colour	Pack Qty.	Part No.
ES4 end plate	ZS4...	● Dark Grey	20	1SNK505910R0000

Fuse Terminals

Terminal	Rating A	Term. Width (mm)	Fuse Type	Type	Pack Qty.	Part No.
ZS4-SF1	6.3	8	5x20 / 5x25		50	1SNK508410R0000
ZS4-SF1-T2	6.3	8	5x20 / 5x25	Ø2mm test socket	50	1SNK508411R0000
ZS4-SF1-R1	6.3	8	5x20 / 5x25	24-60V DC BFI	50	1SNK508412R0000
ZS4-SF1-R2	6.3	8	5x20 / 5x25	Ø2mm test socket 24-60V DC BFI	50	1SNK508413R0000
ZS4-SF1-R3	6.3	8	5x20 / 5x25	115-250V AC BFI	50	1SNK508414R0000
ZS4-SF1-R4	6.3	8	5x20 / 5x25	Ø2mm test socket 115-250V AC BFI	50	1SNK508415R0000

Accessories

Description	For Terminals	Colour	Pack Qty.	Part No.
ES4-SF end section	ZS4-SF1... ZS4-SF1-R4	● Dark Grey	20	1SNK508960R0000

SNK Series Accessories

End Stops

Type	Rail	Colour	Pack Qty.	Part No.
BAM4	DIN3-TH35	● Dark Grey	50	1SNK900001R0000
BAZH1	DIN3-TH35	● Dark Grey	20	1SNK900102R0000

Label Holders

Type	Description	Colour	Pack Qty.	Part No.
LH	30x8.8mm label holder for end stop	● Dark Grey	50	1SNK900605R0000
LH-R1	35.35x17.65mm label holder for end stop	● Dark Grey	50	1SNK900607R0000

Circuit Separators

Type	Description	Colour	Pack Qty.	Part No.
CS	Terminals upto 16mm ² without space loss	● Dark Grey	20	1SNK900101R0000
CS-R1	Terminals upto 35mm ²	● Dark Grey	20	1SNK900103R0000

Protective Covers

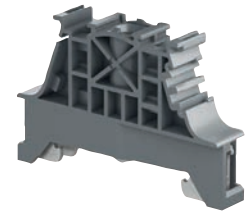
Type	Width	Length	Pack Colour	Pack Qty.	Part No.
PL5	5mm	-	Transparent	20	1SNK900618R0000
PL6	6mm	-	Transparent	20	1SNK900619R0000
PL8	8mm	-	Transparent	20	1SNK900620R0000
PL10	10mm	-	Transparent	10	1SNK900621R0000
PL16	16mm	-	Transparent	10	1SNK900622R0000
CO	-	1 Metre	Transparent	1	1SNK900604R0000
KCO	Mounting kit for protective cover (2 x BAZH1 end stops c/w sealing tool)			1	1SNK900624R0000

Terminal Markers

Horizontal

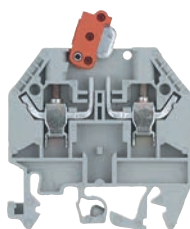
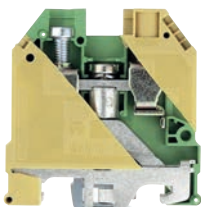
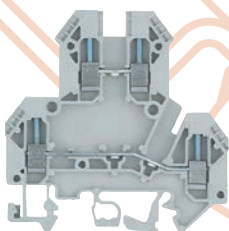
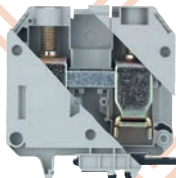
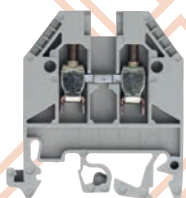
Type	Print	For Terminal Width (mm)	Part No.
MC512 White	1...10	≥ 6	1SNK140011R0000
	1...100	≥ 8	1SNK145011R0000
MC612 White	1...10	≥ 6	1SNK150011R0000
	1...100	≥ 8	1SNK155011R0000
MC812 White	1...10	≥ 6	1SNK160011R0000
	1...100	≥ 8	1SNK165011R0000

ABB





wieland



Selos Line

A series of rail terminal blocks that combines many user-friendly characteristics in a single product, giving the user decisive advantages in terms of flexibility, economy and reliability. The selos series of products combines the classic screw connection with modern connection technology.

Feed Through Terminals

Description	Part No.
2.5mm Screw Terminal	57.503.0055.0
4mm Screw Terminal	57.504.0055.0
6mm Screw Terminal	57.506.0055.0
10mm Screw Terminal	57.510.0155.0
16mm Screw Terminal	57.516.0155.0
35mm Screw Terminal	57.535.0155.0
70mm Screw Terminal	57.570.0155.0

Double/ Triple Deck Terminals

2.5mm Double Deck Terminal	57.403.7055.0
4mm Double Deck Terminal	57.404.7055.0
2.5mm Triple Deck Terminal	57.503.8855.0

Earth Terminals

4mm Earth Terminal	57.504.9055.0
6mm Earth Terminal	57.506.9055.0
10mm Earth Terminal	57.510.9055.0
16mm Earth Terminal	57.516.9055.0
35mm Earth Terminal	57.535.9055.0

Fuse/ Knife Disconnect Terminals

4mm Knife Disconnect Terminal	57.504.2055.0
4mm Flip up Fuse Terminal for 5x20 Fuse	57.904.5355.0
4mm Flip up Fuse Terminal for 6.3x32mm Fuse	57.904.6355.0
10mm Screw Fuse Terminal 5x20 Fuse	57.910.9055.0

Din Rail End Clamps

Metal TS35 End Clamp	Z5.522.8555.0
Plastic TS35 End Clamp	Z5.522.7453.0

End Plates/ Partitions

End plate for 2.5 / 4mm Terminal	07.311.0155.0
Partition plate for 2.5 / 4mm Terminal	07.311.1155.0
End plate for 6mm Terminal	07.311.0255.0
Partition Plate for 6mm Terminal	07.311.1255.0
End plate for 10mm Terminal	07.311.6655.0
Partition Plate for 10mm Terminal	07.311.7655.0
End Plate for 16mm Terminal	07.311.6755.0
Partition plate for 16mm Terminal	07.311.7755.0
End Plate for 10mm Fuse Terminal	07.311.4155.0

Jumper Bar

2.5mm Jumper Bar 80 Pole	Z7.280.0027.0
4mm Jumper Bar 70 Pole	Z7.281.0027.0

A Series

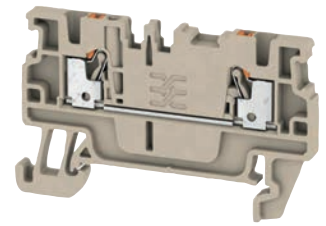
The innovative PUSH IN technology of the new Klippon® Connect A-Series reduces connection times for solid wires and wires with crimped on wire-end ferrules. They can be directly connected without tools for speed and safety. Coloured pushers prevent incorrect wiring and speed up the installation process.

Weidmüller 

TERMINALS & CONNECTORS

Feed-Through Terminals

Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
A2C 1.5	17.5	500	ZQV	0.5...1.5	0.5...1.5	0.5...1.5	3.5	1552790000
A2C 2.5	24	800	ZQV	0.5...2.5	0.5...2.5	0.5...2.5	5.1	1521850000
A4C 2.5	24	800	ZQV	0.5...2.5	0.5...2.5	0.5...2.5	5.1	1521690000
A2C 2.5 /DT/FS	24	800	ZQV	0.5...2.5	0.5...2.5	0.5...2.5	5.1	1989900000
A2C 4	32	800	ZQV	0.5...4.0	0.5...4.0	0.5...4.0	6.1	2051180000
A4C 4	32	800	ZQV	0.5...4.0	0.5...4.0	0.5...4.0	6.1	2051500000
A2C 6	41	800	ZQV	0.5...6.0	0.5...6.0	0.5...6.0	8.1	1992110000



End Plates

Description	For Terminal	Part No.
AEP 2C 1.5	A2C 1.5	1552600000
AEP 2C 2.5	A2C 2.5	1514400000
AEP 4C 2.5	A4C 2.5, ADT 2.5 2C, A2C /DT/FS2.5	1521530000
AEP 2T 2.5	A2T 2.5	1547690000
AEP DT 2.5 4C	ADT 2.5 4C	1989980000
AEP 2C 4	A2C 4	2051680000
AEP 4C 4	A4C 4	2051900000
AEP 2C 6	A2C 6	1991970000
AEP 2C 4 BK	AFS 4 2C BK	2486640000

End Stop

Description	For Terminal	Part No.
AEB 35 SC/1	For A-Series	1991920000

Cross Connections

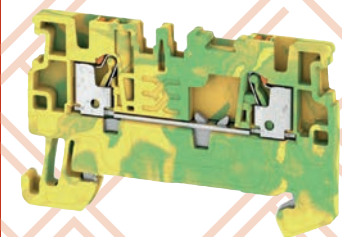
Description	For Terminal	Part No.
ZQV 1.5N/2	A2C 1.5	1985410000
ZQV 1.5N/2 BL	A2C 1.5	1985530000
ZQV 1.5N/2 RD	A2C 1.5	1985650000
ZQV 1.5N/10	A2C 1.5	1985580000
ZQV 1.5N/10 BL	A2C 1.5	1985680000
ZQV 1.5N/10 RD	A2C 1.5	1985800000
ZQV 2.5N/2	A2C 2.5, A4C 2.5, A2C 2.5 /DT/FS, A2T 2.5, ADT 2.5	1527540000
ZQV 2.5N/2 BL	A2C 2.5, A4C 2.5, A2C 2.5 /DT/FS, A2T 2.5, ADT 2.5	1527740000
ZQV 2.5N/2 RD	A2C 2.5, A4C 2.5, A2C 2.5 /DT/FS, A2T 2.5, ADT 2.5	2108470000
ZQV 2.5N/10	A2C 2.5, A4C 2.5, A2C 2.5 /DT/FS, A2T 2.5, ADT 2.5	1527690000
ZQV 2.5N/10 BL	A2C 2.5, A4C 2.5, A2C 2.5 /DT/FS, A2T 2.5, ADT 2.5	1527880000
ZQV 2.5N/10 RD	A2C 2.5, A4C 2.5, A2C 2.5 /DT/FS, A2T 2.5, ADT 2.5	2108910000
ZQV 4N/2	A2C 4	1527930000
ZQV 4N/2 BL	A2C 4	1528040000
ZQV 4N/10	A2C 4	1528090000
ZQV 4N/10 BL	A2C 4	1528230000
ZQV 6N/2	A2C 6	1985740000
ZQV 6N/2 BL	A2C 6	1985830000

Earth Terminals

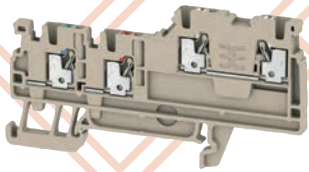
Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
A2C 1.5 PE	-	500		0.5...1.5	0.5...1.5	0.5...1.5	3.5	1552680000
A2C 2.5 PE	-	800		0.5...2.5	0.5...2.5	0.5...2.5	5.1	1521680000
A4C 2.5 PE	-	800		0.5...2.5	0.5...2.5	0.5...2.5	5.1	1521540000
A2C 4 PE	-	800		0.5...4.0	0.5...4.0	0.5...4.0	6.1	2051360000
A4C 4 PE	-	800		0.5...4.0	0.5...4.0	0.5...4.0	6.1	2051560000
A2C 6 PE	-	800		0.5...6.0	0.5...6.0	0.5...6.0	8.1	1991810000
A2T 2.5 PE	-	800		0.5...2.5	0.5...2.5	0.5...2.5	5.1	1547680000

Disconnect Terminals

Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
ADT 2.5 2C	20	800	ZQV	0.5...2.5	0.5...2.5	0.5...2.5	5.1	1989800000
ADT 2.5 4C	20	800	ZQV	0.5...2.5	0.5...2.5	0.5...2.5	5.1	1989860000



PUSH-IN TERMINALS



A Series

Fuse Terminal

Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
AFS 4 2C BK	6.3	250	ZQV	0.5...4.0	0.5...4.0	0.5...4.0	6.1	2429860000

Signal Wiring Terminals

Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
AI021 1.5 SI	13.5	250	ZQV	0.5...1.5	0.5...1.5	0.5...1.5	3.5	1992260000
AI021 1.5 SO	13.5	250	ZQV	0.5...1.5	0.5...1.5	0.5...1.5	3.5	1992240000
AI021 1.5 SO-PE	13.5	250	ZQV	0.5...1.5	0.5...1.5	0.5...1.5	3.5	1992250000
AI022 1.5 SI-PE	13.5	250	ZQV	0.5...1.5	0.5...1.5	0.5...1.5	3.5	1992230000
AI023 1.5 2SI	13.5	250	ZQV	0.5...1.5	0.5...1.5	0.5...1.5	3.5	1992220000

End Plates

Description	For Terminal	Part No.
AEP I021	AI021's	1993580000
AEP I022	AI022's	1993590000
AEP I023	AI023's	1993600000

Cross Connections

Description	For Terminal	Part No.
ZQV 1.5N/2	AI0's	1985410000
ZQV 1.5N/2 BL	AI0's	1985530000
ZQV 1.5N/2 RD	AI0's	1985650000
ZQV 1.5N/10	AI0's	1985800000
ZQV 1.5N/10 BL	AI0's	1985680000
ZQV 1.5N/10 RD	AI0's	1985800000

Signal Wiring Terminals

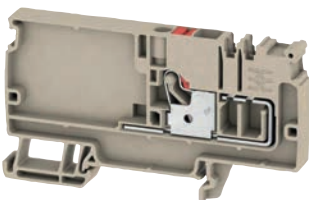
Terminals	Rating		Connection Type	Cabel Size (mm)			Term. Width (mm)	Part No.
	A	V		Solid	Stranded	Flexible		
AAP11 6 LO RD	500	41	ZQV	0.5...6.0	0.5...6.0	0.5...6.0	8.1	1989780000
AAP11 6 LO BL	500	41	ZQV	0.5...6.0	0.5...6.0	0.5...6.0	8.1	1988130000
AAP11 6 FE	500	41	ZQV	0.5...6.0	0.5...6.0	0.5...6.0	8.1	1988140000
AAP11 1.5 LI RD	500	17.5	ZQV	0.5...1.5	0.5...1.5	0.5...1.5	3.5	1988160000
AAP11 1.5 LI BL	500	17.5	ZQV	0.5...1.5	0.5...1.5	0.5...1.5	3.5	1988170000
AAP12 10 LO RD	800	57	ZQV	0.5...10.0	0.5...10.0	0.5...10.0	10	1988190000
AAP12 10 LO BL	800	57	ZQV	0.5...10.0	0.5...10.0	0.5...10.0	10	1988180000
AAP12 10 FE	800	57	ZQV	0.5...10.0	0.5...10.0	0.5...10.0	10	1988200000
AAP12 2.5 LI RD	800	24	ZQV	0.5...2.5	0.5...2.5	0.5...2.5	5.1	1988290000
AAP12 2.5 LI BL	800	24	ZQV	0.5...2.5	0.5...2.5	0.5...2.5	5.1	1988100000

End Plates

Description	For Terminal	Part No.
AEP AP11	AAP11's	1988320000
AEP AP12	AAP12's	1988300000

Cross Connections

Description	For Terminal	Part No.
ZQV 1.5N/2	AAP11's	1985410000
ZQV 1.5N/2 BL	AAP11's	1985530000
ZQV 1.5N/2 RD	AAP11's	1985650000
ZQV 1.5N/10	AAP11's	1985800000
ZQV 1.5N/10 BL	AAP11's	1985680000
ZQV 1.5N/10 RD	AAP11's	1985800000
ZQV 2.5N/2	AAP12's	1527540000
ZQV 2.5N/2 BL	AAP12's	1527740000
ZQV 2.5N/2 RD	AAP12's	2108470000
ZQV 2.5N/10	AAP12's	1527690000
ZQV 2.5N/10 BL	AAP12's	1527880000
ZQV 2.5N/10 RD	AAP12's	2108910000



Z Series

The latest addition to the Weidmüller rail mounted terminals range is the Z Series which utilises a screwless tension spring type of connection, and fits to TS35 DIN rail.

It gives a quick, easy and reliable method of terminating high density connection and is inherently vibration and shock. The wide range of terminals and accessories are versatile, easy to use and incorporate all the latest designs and materials.

WEMID insulation material:

- Best tracking index - non tracking CTI 600.
- Temperature resistant up to 120°C - no derating up to 75°C ambient temperature.
- Self extinguishing - V0 according to UL 94.

Feed-Through Terminals

Feed-Through Terminals

Terminals	Rating		Connection Type	Cable Size (mm)		Term. Width (mm)	Part No.
	A	V		Solid	Flexible		
ZDK 2.5	20	500	ZQV	0.5...2.5	0.5...2.5	5	1674300000
ZDK 2.5V	20	500	ZQV	0.5...2.5	0.5...2.5	5	1689990000
ZDU 2.5	24	800	ZQV	0.5...4	0.5...4	5	1608510000
ZDU 4	32	800	ZQV	0.5...6	0.5...6	6	1632050000
ZDU 6	41	800	ZQV	0.5...10	0.5...10	8	1608620000
ZDU 10	57	800	ZQV	1.5...10	1.5...10	10	1746750000
ZDU 16	76	1000	ZQV	1.5...16	1.5...16	12	1745230000
ZDU 35	125	800	ZQV	2.5...16	2.5...16	16	1739620000
ZEI 16	76	500	ZQV	1.5...16	1.5...16	15	1745350000

Feed-Through Terminals - Three Way

Terminals	Rating		Connection Type	Cable Size (mm)		Term. Width (mm)	Part No.
	A	V		Solid	Flexible		
ZDU 2.5-2/3AN	24	800	ZQV	0.5...2.5	0.5...2.5	5	1706010000
ZDU 2.5/3AN	24	800	ZQV	0.5...4	0.5...4	5	1608540000
ZDU 4/3AN	32	800	ZQV	0.5...6	0.5...6	6	7904180000
ZDU 6/3AN	41	800	ZQV	0.5...10	0.5...10	8	7907410000
ZDU 10/3AN	57	800	ZQV	1.5...16	1.5...16	10	1767690000

Feed-Through Terminals - Four Way

Terminals	Rating		Connection Type	Cable Size (mm)		Term. Width (mm)	Part No.
	A	V		Solid	Flexible		
ZDU 2.5-2/4AN	24	800	ZQV	0.5...2.5	0.5...2.5	5	1706060000
ZDU 2.5/4AN	24	800	ZQV	0.5...4	0.5...4	5	1608570000
ZDU 2.5/2X2 AN	24	800	ZQV	0.5...4	0.5...4	5	1608600000
ZDU 4/4AN	32	800	ZQV	0.5...6	0.5...6	6	7904290000

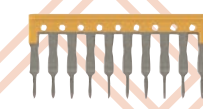
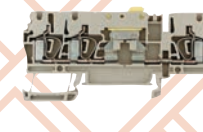
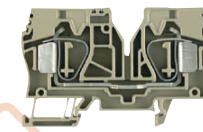
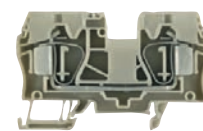
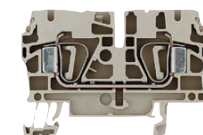
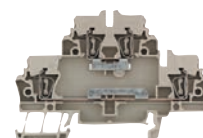
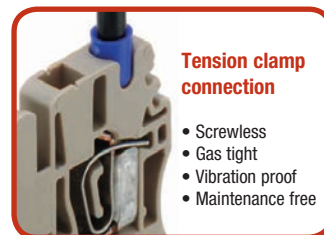
Accessories

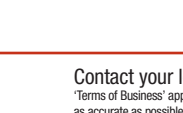
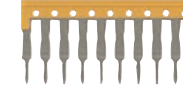
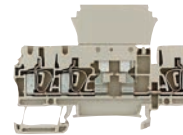
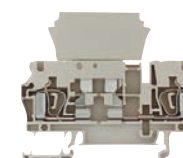
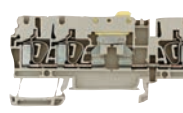
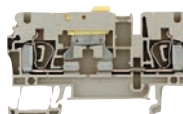
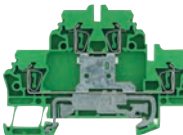
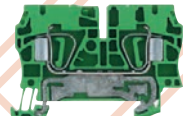
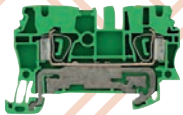
Description	For Terminal	Part No.
End plate / partition	ZDU 2.5-2/3AN & ZDU 2.5-2/4AN	1706110000
	ZDU 2.5	1608740000
	ZDU 2.5/3AN	1608770000
	ZDU 2.5/4AN & ZDU 2.5/2X2AN	1608800000
	ZDU 4	1632090000
	ZDU 4/3AN	7904100000
	ZDU 4/4AN	7904210000
	ZDU 6	1608830000
	ZDU 6/3AN	7907370000
	ZDU 10	1748660000
ZDU 10/3AN	1749580000	
ZDU 16	1745150000	
Test adaptor	ZDK 2.5 & ZDK 2.5V	1674730000
	ZDU 2.5, ZDU 2.5/3AN, ZDU 2.5/4AN & ZDU 2.5/2X2AN	1609050000
	ZDU 4, ZDU 4/3AN, ZDU 4/4AN	1609070000
	ZDU 6, ZDU 6/3AN	1654050000
Test plug	ZDK 2.5 & ZDK 2.5V	1688110000
	ZDU 10, ZDU 16, ZDU 35, ZEI 16	0180400000

Cross-Connections

Description	For Terminal	Type	Part No.
ZQV	ZDU 2.5, ZDU 2.5-2/3AN, ZDU 2.5/3AN, ZDU 2.5/4AN, ZDK 2.5 & ZDK 2.5V	2 Pole	1608860000
		3 Pole	1608870000
		4 Pole	1608880000
		10 Pole	1608940000
		ZDU 2.5-2/4AN	2 Pole
	ZDU 4, ZDU 4/3AN, ZDU 4/4AN	2 Pole	1608950000
		3 Pole	1608960000
		4 Pole	1608970000
		10 Pole	1609030000
		2 Pole	1627850000
	ZDU 6, ZDU 6/3AN	3 Pole	1627860000
		4 Pole	1627870000
		ZDU 10, ZDU 10/3AN	2 Pole
ZDU 16	2 Pole	1739690000	
ZDU 35	2 Pole	1739700000	

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Z Series Terminals

Fuse Terminals

Terminal	Rating V	Cabel Size (mm)			Term. Width (mm)	Part No.
		Solid	Stranded	Flexible		
2 Way						
ZPE 2.5	800	0.5...4	-	0.5...4	5	1608640000
ZPE 4	800	0.5...6	1.5...6	0.5...6	6	1632080000
ZPE 6	800	0.5...10	1.5...10	0.5...10	8	1608670000
ZPE 10	800	1.5...10	1.5...16	1.5...10	10	1746770000
ZPE 16	800	1.5...10	1.5...25	1.5...16	12	1745250000
ZPE 35	800	2.5...10	1.5...35	2.5...35	16	1739650000
3 Way						
ZPE 2.5-2/3AN	800	0.5...2.5	-	0.5...2.5	5	1706090000
ZPE 2.5/3AN	800	0.5...4	-	0.5...4	5	1608650000
ZPE 4/3AN	800	0.5...6	0.5...6	0.5...6	6	7904170000
ZPE 6/3AN	800	0.5...10	0.5...10	0.5...10	8	7907400000
4 Way						
ZPE 2.5-2/4AN	800	0.5...2.5	-	0.5...2.5	5	1706100000
ZPE 2.5/4AN	800	0.5...4	-	0.5...4	5	1608660000
ZDK 2.5/1.5 PE	500	0.5...2.5	-	0.5...2.5	5	1690000000
ZPE 4/4AN	800	0.5...6	0.5...6	0.5...6	6	7904280000

Accessories

Description	For Terminal	Part No.	
End plate / partition	ZPE 2.5-2/3AN & ZPE 2.5-2/4AN	1706110000	
	ZPE 2.5	1608740000	
	ZPE 2.5/3AN	1608770000	
	ZPE 2.5/4AN	1608800000	
	ZDK 2.5/1.5 PE	1674730000	
	ZPE 4	1632090000	
	ZPE 4/3AN	7904100000	
	ZPE 4/4AN	7904210000	
	ZPE 6	1608830000	
	ZPE 6/3AN	7907370000	
	ZPE 10	1748660000	
	ZPE 16	1745150000	
	Support block	ZPE 2.5-2/3AN...ZPE 35	0494920000
		ZPE 2.5-2/3AN, ZPE 2.5/4AN & ZDK 2.5/1.5 PE	1688110000
Test adaptor	ZPE 2.5, ZPE 2.5-2/3AN, ZPE 2.5/4AN	1609050000	

Disconnect Test Terminals

Disconnect Test Terminals

Terminals	Rating		Connection Type	Cabel Size (mm)		Term. Width (mm)	Part No.
	A	V		Solid	Flexible		
ZTR 2.5	20	500	ZQV	0.5...4	0.5...4	5	1831280000
ZTR 2.5/3 AN	20	500	ZQV	0.5...4	0.5...4	5	8731720000
ZTR 2.5/0.TNHE	20	500	ZQV	0.5...4	0.5...4	5	1831130000
ZTR 2.5/3 AN/0.TNHE	20	500	ZQV	0.5...4	0.5...4	5	8728450000

Accessories

Description	For Terminal	Part No.
End plate / partition	ZTR 2.5...ZTR 2.5/0. TNHE	1608740000
	ZTR 2.5/3AN & ZTR 2.5/3 AN/0. TNHE	1608800000

Cross-Connections

Description	For Terminal	Type	Part No.
ZQV	ZTR 2.5...ZTR 2.5/3 AN/D	2 Pole	1608860000
		3 Pole	1608870000
		4 Pole	1608880000
		10 Pole	1608940000

Z Series E Terminals



Terminals	Rating		Connection Type	Cabel Size (mm)		Term. Width (mm)	Part No.
	A	V		Solid	Flexible		
ZSI 2.5/5 x20	6.3	500	ZQV	0.5...4	0.5...4	8	1616400000
ZSI 2.5/2	12	500	ZQS	0.5...4	0.5...4	12	1616460000

Accessories		
Description	For Terminal	Part No.
End plate	ZSI 2.5/5 x20	1608800000
Lever plate	ZSI 2.5 & ZSI 2.5/2	1610840000

Cross-Connections			
Description	For Terminal	Type	Part No.
		2 Pole	1627850000
ZQV	ZSI 2.5	3 Pole	1627860000
		4 Pole	1627870000

Z ROOF Tension Clamp Terminals

Weidmuller build upon success in terminal technology by offering a real choice between screw and screwless connectivity, with the introduction of the new Z ROOF Tension Clamp Terminal as part of the growing Z Series family.

The Range

- Feed Through terminals from 2.5 to 6mm² with 2, 3 or 4 connections
- Earth terminals from 2.5 to 6mm² with 2, 3 or 4 connections
- Fuse Terminals
- Disconnect Terminals
- Terminal blocks with electronic components
- Supply terminals 16mm² for power distribution

Benefits

The Cost effective terminals offers many benefits:

- Z Roof Terminal design results in space saving and easier wiring
- Reduced length by as much as 36% for 2.5mm² feed-through terminal block with 4 connections
- Combines the benefits of top and side entry
- Only one end plate per rated cross-section for types with 2, 3 and 4 connections



Weidmüller Insulation Material

- Non-tracking CTI 600
- Self-extinguishing V0/UL 94
- Temperature Resistant 120°C



Tension Clamp/ Current Bar

- Separation between electrical & mechanical function
- Vibration roof



Pluggable Cross Connection

- Break off singlepoles to skip different potentials
- Full rated current



Z Roof Terminals

Terminals	Rating		Cabel Size (mm)		Term. Width (mm)	Voltage	Part No.
	A	V	Solid	Flexible			
Feed-through Terminals							
ZDU 2.5-2	24	800	0.5...2.5	0.5...2.5	5		1772060000
ZDU 2.5-2/3AN	24	800	0.5...2.5	0.5...2.5	5		1706010000
ZDU 2.5-2/4AN	24	800	0.5...2.5	0.5...2.5	5		1706060000
ZDU 4-2	32	800	0.5...6	0.5...4	6		1770370000
ZDU 4-2/3AN	32	800	0.5...6	0.5...4	6		1770360000
ZDU 6-2	41	800	0.5...10	0.5...10	8		1771380000
ZDU 6-2/3AN	41	800	0.5...10	0.5...10	8		1771410000
ZEI 16-2/1AN	76	800	1.5...10	1.5...16	14		1772940000
Disconnect Terminals							
ZTR 2.5-2/SI	6.3	400	0.5...2.5	0.5...2.5	5	250V	1779030000
ZTR 2.5-	10	400	0.5...2.5	0.5...2.5	5		1779010000
ZTR 2.5-2/0.TNHE	6.3	400	0.5...2.5	0.5...2.5	5	No disc lever	1779020000
Terminal with Diode							
ZTR 2.5-2 D +/-	1	400	0.5...2.5	0.5...2.5	5		1779000000 1779110000
Earth Terminals							
ZPE 2.5-2	-	800	0.5...2.5	0.5...2.5	5	Green	1772090000
ZPE 2.5-2/3AN	-	800	0.5...2.5	0.5...2.5	5	Green	1706090000
ZPE 2.5-2/4AN	-	800	0.5...2.5	0.5...2.5	5	Green	1706100000
ZPE 4-2/2AN	-	800	0.5...6	0.5...4	6	Green	1770380000
ZPE 4-2/3AN	-	800	0.5...6	0.5...4	6	Green	1770390000
ZPE 6-2/2AN	-	800	0.5...10	0.5...10	8	Green	1771370000
ZPE 6-2/3AN	-	800	0.5...10	0.5...10	8	Green	1771360000
ZPE 16-2/1AN	-	800	0.5...10	0.5...16	12	Green	1772960000

Accessories		
Description	For Terminal	Part No.
	ZDU 2.5-2.../4AN ZPE 2.5-2.../4AN ZTR 2.5-2/SI ZTR 2.5-2 ZDU 2.5-2D	1706110000
End plate	ZPE 4, ZDU 4-2 ZPE 4-2/3AN	1770400000
	ZDU 6-2, ZDU 6-2/3AN	1771440000
	ZPE 16-2/1AN	1772970000
Support block	ZPE 2.5-2...ZPE 4	0494920000

Cross-Connections			
Description	For Terminal	Type	Part No.
	ZDU 2.5-2	2 Pole	1608860000
	ZTR 2.5-2SI	3 Pole	1608870000
	ZTR 2.5	4 Pole	1608880000
	ZDU 2.5-2D	10 Pole	1608940000
ZQV		2 Pole	1608950000
	ZDU 4-2	3 Pole	1608960000
	ZDU 2.5-2	4 Pole	1608970000
		10 Pole	1609030000
ZQB	ZDU 2.5-2/4AN		1677120000



PCB Terminals - 3.5mm Pitch

Direct Connected

LM 3.5

Screw clamp PCB terminal

Pitch 3.5mm
Cable size 0.2 - 1.5mm²
Current 16A
Voltage 320V (IEC)

LM 3.5				
Poles	Cable Entry	Pin Length (mm)	Pins / Pole	Part No.
2	90°	3.2	1	1667750000
3	90°	3.2	1	1667770000
2	135°	3.2	1	1714980000
3	135°	3.2	1	1715020000

PCB Terminals - 5.08mm Pitch

LM 5.08

Screw clamp PCB terminal

Pitch 5.08mm
Cable size 0.2 - 2.5mm²
Current 24A
Voltage 630V (IEC)

LM 5.08				
Poles	Cable Entry	Pin Length (mm)	Pins / Pole	Part No.
2	90°	3.5	1	1716080000
3	90°	3.5	1	1716090000

LM 5.08

Screw clamp PCB terminal

Pitch 5.08mm
Cable size 0.2 - 6mm²
Current 32A
Voltage 500V (IEC)

LM 5.08				
Poles	Cable Entry	Pin Length (mm)	Pins / Pole	Part No.
2	90°	4.5	1	1696040000
3	90°	4.5	1	1696050000
2	135°	4.5	1	1676740000
3	135°	4.5	1	1676750000

TOP 1.5 GS

Top clamp PCB screw terminal

Modular construction

Pitch 7.62mm
Cable size 0.5 - 2.5mm²
Current 24A
Voltage 630V (IEC)

- Single pole units need to be assembled with AP/ZP to close open face

TOP 1.5 GS				
Poles	Cable Entry	Pin Length (mm)	Pins / Pole	Part No.
2	90°	3.5	2	0393360000
3	90°	3.5	2	0393460000
2	180°	4.5	2	0391360000
3	180°	4.5	2	0391460000
End Plate				
AP/ZP				0569760000

PCB Connectors - 3.5mm Pitch

BL 3.5

Screw clamp connection

Pitch 3.5mm
Cable size 0.2 - 1.5mm²
Current 17A
Voltage 250V (IEC)

BL 3.5

Poles	Orientation	Part No.
2	180°	1597360000
3	180°	1597370000
4	180°	1597380000
6	180°	1597400000
10	180°	1597440000
12	180°	1597460000

Other numbers of poles also available on request.

SL 3.5

Pitch 3.5mm
Current 17A
Voltage 250V (IEC)

SL 3.5

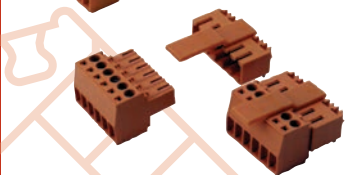
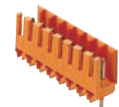
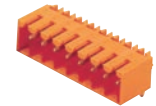
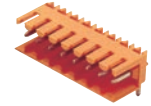
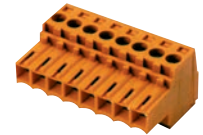
Poles	Orientation	Pin Length (mm)	Open-End Part No.	Closed-End Part No.
2	90°	3.2	1597210000	1605070000
3	90°	3.2	1597220000	1605080000
4	90°	3.2	1597230000	1605090000
6	90°	3.2	1597250000	1605110000
10	90°	3.2	1597290000	1605150000
12	90°	3.2	1597310000	1605170000
2	180°	3.2	1604770000	1604470000
3	180°	3.2	1604780000	1604480000
4	180°	3.2	1604790000	1604490000
6	180°	3.2	1604810000	1604510000
10	180°	3.2	1604850000	1604550000
12	180°	3.2	1604870000	1604570000

Other numbers of poles also available on request.

Accessories

Description	Part No.
Coding piece	1610100000
Locking latch VR	1669310000
Strain relief ZE3	1629680000
Strain relief ZE8	1629690000

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PCB Connectors - 5.08mm Pitch

BL 5.08

Socket with screw clamp and leaf spring cable protection

Pitch 5.08mm
Cable size 0.2 - 1.5mm²
Current 14A
Voltage 400V (IEC)



BL 5.08		
Poles	Orientation	Part No.
2	180°	1716320000
3	180°	1716330000
4	180°	1716340000
5	180°	1716350000
6	180°	1716360000
7	180°	1716370000
8	180°	1716380000
9	180°	1716390000
10	180°	1716400000
11	180°	1716410000
12	180°	1716420000
13	180°	1716430000
14	180°	1716440000
15	180°	1716450000
16	180°	1716460000

BLZ 5.08

Socket with screw clamp

Pitch 5.08mm
Cable size 0.2 - 2.5mm²
Current 19A
Voltage 400V (IEC)

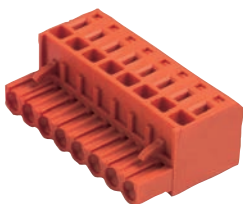


BLZ 5.08		
Poles	Orientation	Part No.
2	180°	1526460000
3	180°	1526560000
4	180°	1526660000
6	180°	1526860000
8	180°	1527060000
10	180°	1527260000
12	180°	1527460000

BLZF 5.08

Socket with tension clamp technology

Pitch 5.08mm
Cable size 0.2 - 2.5mm²
Current 17A
Voltage 400V (IEC)



BLZF 5.08		
Poles	Orientation	Part No.
2	180°	1707460000
3	180°	1707470000
4	180°	1707480000
6	180°	1707500000
8	180°	1707520000
10	180°	1707540000
12	180°	1707560000

Other numbers of poles also available on request.

PCB Connectors - 5.08mm Pitch

SL 5.08

Pitch 5.08mm
Current 18A
Voltage 400V (IEC)

SL 5.08 - 90°

Poles	Orientation	Pin Length (mm)	Open-End Part No.	Closed-End Part No.
2	90°	4.5	1512610000	1514910000
3	90°	4.5	1512710000	1515010000
4	90°	4.5	1512810000	1515110000
6	90°	4.5	1513010000	1515310000
8	90°	4.5	1513210000	1515510000
10	90°	4.5	1513410000	1515710000
12	90°	4.5	1513610000	1515910000

Other numbers of poles also available on request.

SL 5.08

Pitch 5.08mm
Current 18A
Voltage 400V (IEC)

SL 5.08 - 180°

Poles	Orientation	Pin Length (mm)	Open-End Part No.	Closed-End Part No.
2	180°	4.5	1521810000	1524110000
3	180°	4.5	1521910000	1524210000
4	180°	4.5	1522010000	1524310000
6	180°	4.5	1522210000	1524510000
8	180°	4.5	1522410000	1524710000
10	180°	4.5	1522610000	1524910000
12	180°	4.5	1522810000	1525110000

Other numbers of poles also available on request.

Accessories

Description	Part No.
Coding piece - BLZ/SL KO black	1545710000
Mounting block (use with closed end SL if required) SLA BB1R width 7.5mm	1723430000





STV Powermate

High current screw clamp connectors for cables up to 4mm² and up to 10 poles. Designed for panel mounting and can be coded without loss of poles. Leading earth pins also available.

STVS

In-line Conductors 7mm
Pitch 4mm²
Cable size 1000V AC
Voltage



Socket Blocks - STVS SB

Current Amps	Poles	Part No.
32	2	1611960000
	3	1611990000
	4	1612020000
	5	1612050000
	6	1612080000
	7	1612110000
	8	1612140000
	9	1612170000
	10	1612200000

Socket Blocks - STVS TB

Current Amps	Poles	Part No.
24	2	1612230000
	3	1612260000
	4	1612290000
	5	1612320000
	6	1612350000
	7	1612380000
	8	1612410000
	9	1612440000
	10	1612470000

Socket Blocks - STVS SS

Current Amps	Poles	Part No.
32	2	1611950000
	3	1611980000
	4	1612010000
	5	1612040000
	6	1612070000
	7	1612100000
	8	1612130000
	9	1612160000
	10	1612190000

Socket Blocks - STVS TS

Current Amps	Poles	Part No.
24	2	1612220000
	3	1612250000
	4	1612280000
	5	1612310000
	6	1612340000
	7	1612370000
	8	1612400000
	10	1612460000

Accessories

Description	Part No.
Coding pin	1613800000

HDC Industrial Connectors

The HDC connector set is built up using four basic elements:-

- Male insert
- Female insert
- Hood
- Housing

First select the inserts, choosing the type and number of poles required. Next select the hood and housing required making sure that the "group size" is the same as that shown for the inserts and that the number of levers match. Hoods may be side or top entry and may be supplied with a complete gland or just a threaded sleeve to take your own gland arrangement. Housings may be bulkhead mounting with cable entry through the rear or surface mounting with cable entry through the side.

Inserts

HA Series

Connection type	Screw (Crimp & tension clamp versions also available for 10, 16, 32 & 48 pole)
Current	22A (32 & 48 Poles - 16A)
Voltage	250V
Cable sizes	0.5 - 2.5mm ² / AWG 20...12
Degree of protection	IP20 (without cover) IP65 (with cover)
Temperature range	-40°C to 125°C

HA Inserts

Poles	Marking	Group Size	Male Part No.	Female Part No.
3	1-3	1	1498100000	1498200000
4	1-4	1	1498300000	1498400000
10	1-10	2	1650610000	1650620000
16	1-16	5	1650770000	1650780000
32	1-16	7	1650770000	1650780000
	17-32	7	1650880000	1650900000
48	1-16	9	1650770000	1650780000
	17-32	9	1650880000	1650900000
	33-48	9	1650990000	1651020000

HE Series

Connection type	Screw (Crimp, tension clamp & push-in versions also available)
Current	16A (6 Poles - 24A)
Voltage	500V
Cable sizes	0.5 - 4.0mm ² / AWG 20...12
Degree of protection	IP20 (without cover) IP65 (with cover)
Temperature range	-40°C to 125°C

HE Inserts

Poles	Marking	Group Size	Male Part No.	Female Part No.
6	1-6	3	1200000000	1200200000
10	1-10	4	1203900000	1204100000
16	1-16	6	1207500000	1207700000
24	1-24	8	1211100000	1211300000
32	1-16	10	1207500000	1207700000
	17-32	10	1215700000	1216100000
48	1-24	12	1211100000	1211300000
	25-48	12	1220800000	1221200000

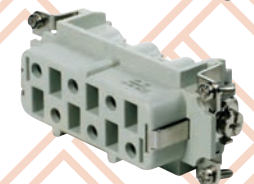
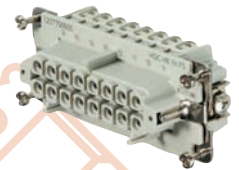
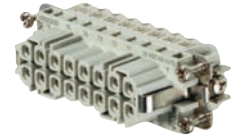
HSB Series

Connection type	Screw
Current	35A
Voltage	400V
Cable sizes	0.5 - 6 mm ² / AWG 20...12
Degree of protection	IP20 (without cover) IP65 (with cover)
Temperature range	-40°C to 125°C

HSB Inserts

Poles	Marking	Group Size	Male Part No.	Female Part No.
6	1-6	6	1498700000	1498900000
12	1-6	10	1498700000	1498900000
	7-12	10	1498800000	1499000000

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Hoods

Provide degree of protection to IP65.

Hoods						
Group Size	Entry Size		No. of Lever	Top Entry Part No.	Side Entry Part No.	
	- PG	Metric				
1	11	20	1	1652470000	1652480000	1788810000
		16	1	1788820000	1788810000	1788810000
2	21	20	1	1663930000	1663810000	1663870000
		25	1	1663990000	1663870000	1663870000
		16	1	1788620000	1788860000	1788860000
3	21	20	1	1788610000	1788850000	1788850000
			1	1652640000	1652520000	1652520000
		25	1	1652680000	1652560000	1652560000
			1	1788120000	1788100000	1788100000
4	21	20	1	1788110000	1788090000	1788090000
			1	1655320000	1655210000	1655210000
		25	2	1654220000	1654070000	1654070000
			2	1654240000	1654090000	1654090000
		25	1	1787600000	1787560000	1787560000
			2	1787620000	1787580000	1787580000
5	21	20	1	1787590000	1787550000	1787550000
			1	1664810000	1664690000	1664690000
		25	1	1664870000	1664750000	1664750000
			1	1788710000	1788680000	1788680000
		25	1	1788750000	1788740000	1788740000
			1	1657960000	1657850000	1657850000
6	29	25	2	1656590000	1656480000	1656480000
			1	1658020000	1657910000	1657910000
		32	2	1656650000	1656540000	1656540000
			1	1788230000	1788200000	1788200000
		32	2	1788210000	1788180000	1788180000
			1	1804630000	1804640000	1804640000
7	29	25	2	1787060000	1787000000	1787000000
			2	1665790000	1665670000	1665670000
		32	2	1665810000	1665690000	1665690000
			2	1787960000	-	-
		32	2	1787990000	1787950000	1787950000
			1	1662540000	1662390000	1662390000
8	29	32	2	1661370000	1661230000	1661230000
			1	1662550000	1662410000	1662410000
		25	2	1787810000	1787750000	1787750000
			1	1787860000	1787800000	1787800000
		25	2	1787820000	1787760000	1787760000
			1	1666730000	1666710000	1666710000
9	29	32	1	1788560000	1788550000	1788550000
		1	1219300000	1667120000	1667120000	
10	29	32	2	1666870000	1666840000	1666840000
			1	1788450000	1788420000	1788420000
		32	2	1788430000	1788400000	1788400000
			1	1650980000	1650850000	1650850000
12	42	32	1	1651000000	1650860000	1650860000
			1	-	1670470000	1670470000
		50	1	1788350000	1788320000	1788320000
			1	1788330000	1788300000	1788300000

Housing

Provide degree of protection to IP65



Housing - Bulkhead Type			
Group Size	No. of Lever	Cover	Part No.
1	1	No	1497600000
2	1	No	1664040000
3	1	No	1202100000
		Yes	1202500000
4	1	No	1206100000
		2	No
5	1	No	1664920000
		Yes	1664940000
6	1	No	1209700000
		2	No
7	1	Yes	1210100000
		2	No
8	1	No	1213900000
		2	No
9	1	Yes	1214300000
		1	No
10	1	No	1219500000
		2	No
12	1	Yes	1222900000

Housing

Provide degree of protection to IP65.



Housing - Surface Mounting Type

Group Size	Entry Size		No. of Lever	Cover	Part No.
	- PG	Metric			
1	11		1	No	1652490000
		20	1	No	1788830000
2	16		1	No	1664170000
	21		1	Yes	1664410000
				1	No
	20		1	No	1901100000
			1	Yes	1901010000
3	16		1	No	1901160000
				1	No
	2 x 21		1	Yes	1652980000
				1	No
	20		1	No	1900460000
				1	Yes
4	25		1	No	1900480000
				1	No
	2 x 16		1	Yes	1655680000
				2	No
	2 x 21		2	No	1654450000
				1	No
	20		2	No	1901360000
				1	Yes
	25		1	No	1901640000
				2	No
5	21		1	No	1665090000
				1	No
6	2 x 25		1	Yes	1788780000
				1	No
	21		1	Yes	1658320000
				2	No
	29		1	Yes	1658410000
				2	No
7	25		1	No	1900170000
				2	No
	32		1	No	1903110000
				2	No
	2 x 21		2	No	1665980000
				2	No
	29		2	No	1666010000
				2	No
8	2 x 21		1	No	1662720000
				2	No
	2x29		1	Yes	1663040000
				2	No
9	25		1	No	1901560000
				2	No
	32		1	No	1904490000
				2	No
	29		1	No	1666770000
				1	No
10	2 x 29		2	No	1666920000
				1	No
12	32		2	No	1902600000
				1	No
	2 x 40		1	No	1904190000
				No	1788360000

All Metal. Plastic variants also available for Size 1 housings. 2x Entries/other entry sizes and higher housings also available.





Pushing Performance



Han® 3A / Han® 4A

- Innovative Han-Quick Lock® termination with reduced wiring times
- No special tools required
- Suitable for all metal and plastic hoods and housings of the series Han® 3A
- For currents up to 10A

Han A Series Inserts

Description	Pack Qty.	Part No.
Han 3A male insert	10	09200032611
Han 3A female insert	10	09200032711
Han 4A male insert	10	09200042611
Han 4A female insert	10	09200042711

Han® E

- Covers a wide range of cross-sections
- Screw termination with wire protection

Han E Series Inserts

Description	Pack Qty.	Part No.
Han 6E male insert (screw)	1	09330062601
Han 6E female insert (screw)	1	09330062701
Han 10 E male insert (screw)	1	09330102601
Han 10 E female insert (screw)	1	09330102701
Han 16E male insert (screw)	1	09330162601
Han 16E female insert (screw)	1	09330162701
Han 24E male insert (screw)	1	09330242601
Han 24E female insert (screw)	1	09330242701

Hoods

Heavy Duty Metric Hoods - Metal & Plastic

Description	Pack Qty.	Part No.
S/entry hood metal Han 3A M20	10	19200031640
T/entry hood metal Han 3A M20	10	19200031440
S/entry hood M20 L/C Han 6B	1	19300061540
T/entry hood M20 L/C Han 6B	1	19300061440
S/entry hood M20 L/C Han 10B	1	19300101520
T/entry hood M20 L/C Han 10B	1	19300101420
T/entry hood M32 H/C Han 10B	1	19300100427
S/entry hood M25 L/C Han 16B	1	19300161521
T/entry hood M25 L/C Han 16B	1	19300161421
T/entry hood M32 H/C Han 16B	1	19300160427
S/entry hood M32 H/C Han 16B	1	19300160527
S/entry hood M25 L/C Han 24B	1	19300241521
S/entry hood M32 H/C Han 24B	1	19300240527
T/entry hood M32 L/C Han 24B	1	19300241422

Housings

Heavy Duty Housings - Bulkhead Mounting

Description	Pack Qty.	Part No.
Metal housing Han 3A	10	09200030301
Metal housing Han 6B	1	09300060301
Metal housing Han 10B	1	09300100301
Metal housing Han 16B	1	09300160301
Metal housing Han 24B	1	09300240301

Surface Mount Housings

Description	Pack Qty.	Part No.
Han 6B 1XM20 L/C	1	19300061250
Han 10B 1XM20 L/C	1	19300101230
Han 16B 1XM25 L/C	1	19300161231
Han 24B 1XM25 L/C	1	19300241231

Accessories

Cable Glands & Seals

Description	Pack Qty.	Part No.
Cable gland M20 5 - 9mm metal	10	19000005080
Cable gland M20 10 - 14mm metal	10	19000005084
Cable gland M20 5 - 9mm plastic	10	19000005180
Cable gland M20 10 - 14mm Plastic	10	19000005184
Cable gland M25 9 - 16mm metal	10	19000005090
Cable gland M25 13 - 18mm metal	10	19000005092
Cable gland M32 13 - 20mm metal	10	19000005094
Cable gland M32 18 - 25mm metal	10	19000005096

Guide Pins & Bushes for Coding

Guide pin	25	09330009908
Bush	25	09330009909

Tools

Crimp Tools/Removal Tools

Description	Pack Qty.	Part No.
Service crimp tool 0.14 - 1.5mm ²	1	09990000021
Removal tool Han D & DD	1	09990000012
Removal tool Han D & DD (low cost)	1	09990000052
Removal tool Han EE	1	09990000319

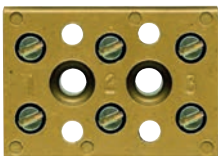
Thread Reducers

M20 Male to M16 Female	10	19000005060
M32 Male to M20 Female	10	19000005067
M32 Male to M25 Female	10	19000005068



Pushing Performance





Terminal Strips

MK 6/2...6/6

Rating		Cable Size (mm)			Type	Part No.
A	V	Solid	Stranded	Flexible		
41	690	0.5...6	1.5...6	0.5...4	2 way	0620420000
					3 way	0620320000
					4 way	0620220000
					6 way	0620120000

MK 3/2...12

Rating		Cable Size (mm)			Type	Part No.
A	V	Solid	Stranded	Flexible		
24	400	0.5...4	1.5...2.5	0.5...2.5	2 way	0273820000
					4 way	0274020000
					6 way	0274220000
					8 way	0274420000
					10 way	0274620000
					12 way	0243520000

KS 2...10

Rating		Cable Size (mm)			Type	Part No.
A	V	Solid	Stranded	Flexible		
24	500	0.5...4	1.5...4	0.5...4	2 way	0134420000
					4 way	0140320000
					6 way	0140620000
					10 way	0141620000

Accessories

Description	Type	Part No.
Covers	2 way	0134500000
	4 way	0140500000
	6 way	0140800000
	10 way	0141800000

BK 2...12

Rating		Cable Size (mm)			Type	Part No.
A	V	Solid	Stranded	Flexible		
32	400	0.5...4	1.5...4	0.5...4	2 way	0624720000
					3 way	0624920000
					4 way	0625120000
					6 way	0625220000
					12 way	0625320000

maxGUARD System

With the maxGUARD system, the terminal blocks (previously installed separately) for distributing potential to the outputs of the electronic load monitors become an integral part of a 24V DC control voltage distribution system. The innovative combination of load monitoring and potential distribution saves time during installation, increases safety against failure and reduces the amount of space required on the terminal rail by 50%.

Connection technology:	PUSH-IN
Nominal operating voltage:	24V DC
Current capability of the system:	max. 40A
Temperature range:	-25...+55°C (without derating)
Terminal cross-section:	Feed-in: 16mm ²
	ELM : 2.5mm ²
	Terminal block: upper level: 1.5mm ²
	lower level: 2.5mm ²

maxGUARD - Distribution Terminals

Type	Function	Part No.
AMG OD	2 Plus & 2 Minus connections	2122910000
AMG PD	4 Plus connections	2122920000
AMG MD	4 Minus connections	2122930000
AMG DIS	2 Disconnect levers	2123050000
AMG PP	Partition plate	2123000000

maxGUARD - Feed-In Modules

Type	Function	Part No.
AMG FIM-0	Feed in module without control function	2081870000
AMG FIM-C	Feed in module with control function	2081880000

maxGUARD - Control & Alarm Modules

Type	Function	Part No.
AMG CM	Control module with reset, on/off, alarm & monitoring function	2081900000
AMG AM	Alarm module with 2 relays	2081890000
AMG AM CO	Alarm module with 2 relays. Coated PCB for GL applications	2082770000

maxGUARD - 2 Pole Disconnect Variable Load Modules

Type	Function	Part No.
AMG ELM-6D CO	Electronic load module - 1, 2, 4 & 6.00 A	2082440000
AMG ELM-10D CO	Electronic load module - 4, 6, 8, 10 & 12.00 A	2082470000

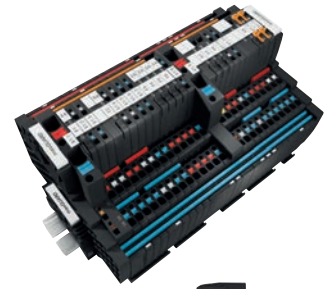
maxGUARD - Fixed Value Load Modules

Type	Function	Part No.
AMG ELM-1F	Electronic load module - 1.00A	2080420000
AMG ELM-2F	Electronic load module - 2.00A	2080480000
AMG ELM-4F	Electronic load module - 4.00A	2080490000
AMG ELM-6F	Electronic load module - 6.00A	2080500000
AMG ELM-8F	Electronic load module - 8.00A	2080600000
AMG ELM-10F	Electronic load module - 10.00A	2080650000

maxGUARD - Accessories

Type	Function	Part No.
ZQV 4N/2	2 pole cross connect - Orange	1527930000
ZQV 4N/3	3 pole cross connect - Orange	1527940000
ZQV 4N/4	4 pole cross connect - Orange	1527970000
ZQV 4N/5	5 pole cross connect - Orange	1527980000
ZQV 4N/6	6 pole cross connect - Orange	1527990000
ZQV 4N/7	7 pole cross connect - Orange	1528020000
ZQV 4N/8	8 pole cross connect - Orange	1528030000
ZQV 4N/9	9 pole cross connect - Orange	1528070000
ZQV 4N/10	10 pole cross connect - Orange	1528090000
ZQV 4N/50	50 pole cross connect - Orange	1528130000
ZQV 4N/2 BL	2 pole cross connect - Blue	1528040000
ZQV 4N/3 BL	3 pole cross connect - Blue	1528080000
ZQV 4N/4 BL	4 pole cross connect - Blue	1528120000
ZQV 4N/5 BL	5 pole cross connect - Blue	1528140000
ZQV 4N/6 BL	6 pole cross connect - Blue	1528170000
ZQV 4N/7 BL	7 pole cross connect - Blue	1528180000
ZQV 4N/8 BL	8 pole cross connect - Blue	1528190000
ZQV 4N/9 BL	9 pole cross connect - Blue	1528220000
ZQV 4N/10 BL	10 pole cross connect - Blue	1528230000
ZQV 4N/50 BL	50 pole cross connect - Blue	1528240000
ZQV 4N/2 RD	2 pole cross connect - Red	2460450000
ZQV 4N/3 RD	3 pole cross connect - Red	2460810000
ZQV 4N/4 RD	4 pole cross connect - Red	2460800000
ZQV 4N/5 RD	5 pole cross connect - Red	2460790000
ZQV 4N/6 RD	6 pole cross connect - Red	2460780000
ZQV 4N/7 RD	7 pole cross connect - Red	2460770000
ZQV 4N/8 RD	8 pole cross connect - Red	2460760000
ZQV 4N/9 RD	9 pole cross connect - Red	2460750000
ZQV 4N/10 RD	10 pole cross connect - Red	2460740000
ZQV 4N/50 RD	50 pole cross connect - Red	2460730000

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6

CABLE MANAGEMENT

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Tri-Rated Cable

Supplied in 100m reels.

- Approval - CSA, UL B BS6231

Single core, flexible plain annealed copper wires, heat resistant PVC insulation Maximum working temperature 105°C.



Technical Data

Cross Section Area mm ²	URL Style	No. & Size of Wires	AWG	Nominal O/D mm	Max. Current Rating	Approx. Weight (kg/km)
0.50	1015	16/0.20	22	2.70	11	13
0.75	1015	24/0.20	20	2.90	14	15
1.00	1015	32/0.20	18	3.10	17	19
1.50	1015	30/0.25	16	3.40	21	25
2.50	1015	50/0.25	14	3.80	30	35
4.00	1015	56/0.30	12	4.40	41	52
6.00	1015	64/0.30	10	5.10	53	76
10.00	1026	80/0.40	8	6.80	75	135
16.00	1283	126/0.40	6	9.20	100	213
25.00	1283	196/0.40	4	10.60	136	300

The current rating shown above are based on a single cable in free air, the maximum conductor temperature being 105°C and an ambient temperature of 45°C.

Temperature De-Rating Factors

Ambient Temp. (°C)	50	55	60	65	70	75
Factor	0.97	0.90	0.82	0.75	0.63	0.52

Bunching De-Rating Factors

No. of Cores	2	3	4	5	6	8	10
Factor	0.80	0.70	0.65	0.60	0.56	0.50	0.46

To calculate the de-rated figure multiply the original current rating by the factor shown in the relevant table.

Tri-Rated Cable Ordering Chart

Complete the part number by following these two easy steps:-

Select **Cable Size 1** ie 1.5 **Colour 2** ie BLACK

1 Cable Size	2 Colour												Part No.	Insert Colour
	Red	Black	Blue	Yellow	Earth	Grey	Green	White	Orange	Brown	Pink	Voilet		
0.5													TR0.5	<input type="checkbox"/>
0.75													TR0.75	<input type="checkbox"/>
1.0													TR1.0	<input type="checkbox"/>
1.5													TR1.5	<input type="checkbox"/>
2.5													TR2.5	<input type="checkbox"/>
4.0													TR4.0	<input type="checkbox"/>
6.0													TR6.0	<input type="checkbox"/>
10.0													TR10.0	<input type="checkbox"/>
16.0													TR16.0	<input type="checkbox"/>
25.0													TR25.0	<input type="checkbox"/>
35.0													TR35.0	<input type="checkbox"/>
50.0													TR50.0	<input type="checkbox"/>
70.0													TR70.0	<input type="checkbox"/>
95.0													TR95.0	<input type="checkbox"/>
120.0													TR120.0	<input type="checkbox"/>

Part No. Completion

When ordering complete the Part No. by adding the following:-

Colour	Part No.
Red	Red
Black	Black
Blue	Blue
Yellow	Yellow
Earth	Earth
Grey	Grey
Green	Green
White	White
Orange	Orange
Brown	Brown
Pink	Pink
Voilet	Voilet

Cable Stock Profile

We supply a wide range of cable products, please call your local sales office for more details.

PVC Flexible Cables

209-Y Cable
218-Y Flexible Cable
2192Y Flexible Cable
2491X Flexible Cable
309-Y Cable
318-Y Cable
6381Y Cable
Arctic Grade Cable
Curly Flex PVC Cable
Elevator Cable/Platform Cable
Tri-rated Cable

LSZH Flexible Cables

2491B/6701B Flexible Cable
318-B LSZH Cable
6381 LSZH Cable
Cat 5E PE FTP GSWB LSZH Cable
Cat 5E UTP LSZH Cable
Cat 6 LSZH Cable
CY LSZH Control Flexible Cable
H07ZZ-F Cable
RZ1-K Cable
YY LSZH Control Flexible Cable

Profibus and Profinet Cables

Profibus DP Q-Strip Cable
Profibus PA Cable
Profinet Type A Cable

Fixed Wiring Cables

6181Y Double Insulated Surface Wiring Cable
624-B LSZH Twin and Earth
6491B Conduit Wiring Cable
6491X Conduit Wiring Cable
Steel Wire Armoured (SWA) LSZH Cable
Steel Wire Armoured (SWA) PVC Cable

Control Flexible Cables

CY Control Flexible Cable
CY LSZH Control Flexible Cable
SY Control Flexible Cable
YY Control Flexible Cable
YY LSZH Control Flexible Cable

Belden Cables

Belden 8162 Multi-Conductor Low Capacitance
Computer cable
Belden 8778 Analog Multi-Pair Snake Cable
Belden 9844 Multi-Conductor Low Capacitance
Computer Cable

Belden Alternative Cable

Individually Screened Multi-Pair Cable
Individually Screened Multi-Pair Low Cap RS422 Cable
Overall Foil and Braid Screened Cable
Overall Screened Multi-Core Cable
Overall Screened Multi-Pair Cable
Overall Screened Single Pair Cable
Unscreened Single Pair Cable

Data Cables

Cat 5E FTP PVC Cable
Cat 5E GSWB LSZH Cable
Cat 5E UTP LSZH Cable
Cat 5E UTP Patch Leads
Cat 5E UTP PE External Cable
Cat 5E UTP PVC Cable
Cat 5E 25 Pair UTP LSZH Cable
Cat 5E 25 Pair UTP PE Cable
Cat 6 LSZH Cable

Accessories

Cable Accessories
Cable Glands
Cable Lugs
Heatshrink
PVC Sleeving
Neoprene Sleeving
Braided Sleeving
Data Accessories
Patch Panels

**Other Cable options
available on request**

Standard Slot Trunking

Material: Rigid self-extinguishing PVC (UL94 V0)
 Colour: Grey to RAL 7035 Grey
 Temperature rating: -15°C +60°C (+5°F to +140°F)
 Complies with: UL 94 V0 Standard & IEC 695-2-1 (glow wire test)

Insulating, shock-proof, self-extinguishing.
 Resistant to acids, oils and grease.
 Supplied in 2 metre lengths.
 Easy open/close cover design.
 Snap-off ribs leave burr-free edges.

8/12mm Standard Slots

W (mm)	H (mm)	No. of 2m Lengths / Pack	Part No.
25	40	24	05043
40	40	15	05045
60	40	20	05047
80	40	16	05049
100	40	12	05051
25	60	17	05063
40	60	11	05065
60	60	16	05067
80	60	12	05069
100	60	10	05071
120	60	7	05073
25	80	14	05083
40	80	18	05085
60	80	12	05087
80	80	8	05089
100	80	8	05091
120	80	6	05093
25	100	10	05094
40	100	14	05095
60	100	10	05096
80	100	7	05097
100	100	4	05098
150	100	4	05099

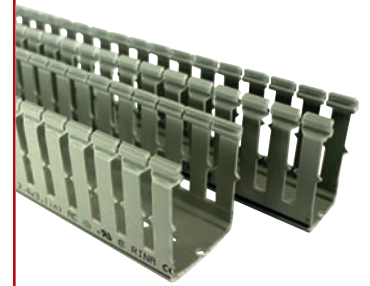
Narrow Slot Trunking

Material: Rigid self-extinguishing PVC (UL94 V0)
 Colour: Grey to RAL 7035 Grey
 Temperature rating: -15°C +60°C (+5°F to +140°F)
 Complies with: UL 94 V0 Standard & IEC 695-2-1 (glow wire test)

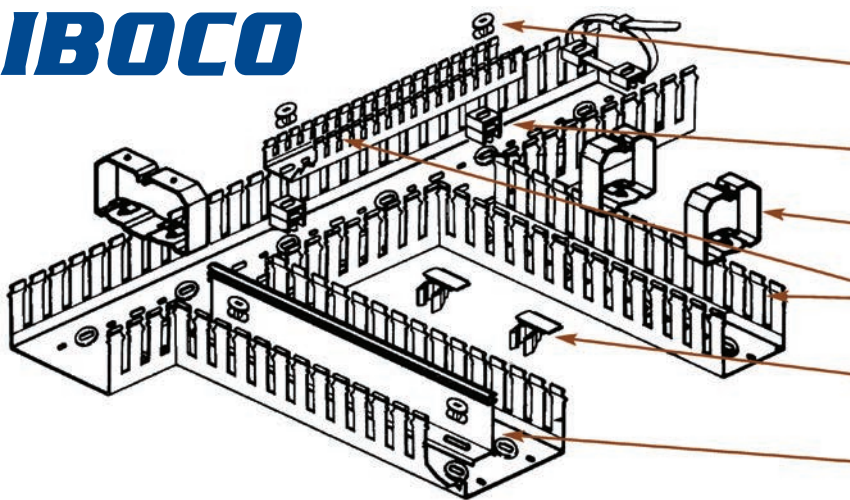
Insulating, shock-proof, self-extinguishing.
 Resistant to acids, oils and grease.
 Supplied in 2 metre lengths.
 Easy open/close cover design.
 Snap-off ribs leave burr-free edges.

4/6mm Standard Slots

W (mm)	H (mm)	No. of 2m Lengths / Pack	Part No.
25	40	24	05143
40	40	15	05145
60	40	20	05147
80	40	16	05149
100	40	12	05151
25	60	17	05163
40	60	11	05165
60	60	16	05167
80	60	12	05169
100	60	10	05171
120	60	7	05173
25	80	14	05183
40	80	18	05185
60	80	12	05187
80	80	8	05189
100	80	8	05191
120	80	6	05193
25	100	10	05194
40	100	14	05195
60	100	10	05196
80	100	7	05197
100	100	4	05198



IBOCO



- ZP1** Fixing Inset
- ZP2** Stackable Fixing Inset
- CL** Cable Retaining Clip
- T1** Trunking
- DUCKAMARK** Identification Tag
- SEP-E** Separator

Cable Trunking

The IBOCO range of Cable Trunking System is available in 3 different styles with different side slot openings, sizes and colours. The range also includes a complete range of accessories such as cable retention clips, separators, circuit identification system and the ability to direct mount the trunking on DIN rail. The system offers the optimum solution to simplify and accelerate panel building.

Material: Rigid self-extinguishing PVC (UL94 V0)
 Colour: Grey to RAL 7030 or blue to RAL 5015
 Temperature rating: 60° ± 2°C

Supplied in 2 metre lengths complete with cover.
 The standard T1 range is ideal for cables usually used in power panels and has a side slot opening of 8mm (generally).



Approvals

- CEI
- CSA
- DIN
- DIN EN
- DIN VDE
- NF
- UL (except Blue T1)
- EN 50 022
- EN 50 035
- EN 50 045
- IEC 1084-1
- CE Marked
- NATO

T1 PVC Grey Trunking

W (mm)	H (mm)	No. of 2m Lengths / Pack	Part No.
15	18	36	T1 M 015 X 18
15	30	32	T1 M 015 X 30
15	40	24	T1 M 015 X 40
25	30	36	T1 025 X 30
25	40	36	T1 025 X 40
40	40	20	T1 040 X 40
60	40	12	T1 060 X 40
80	40	12	T1 080 X 40
100	40	8	T1 100 X 40
25	60	24	T1 025 X 60
40	60	18	T1 040 X 60
60	60	12	T1 060 X 60
80	60	12	T1 080 X 60
100	60	8	T1 100 X 60
120	60	8	T1 120 X 60
25	80	24	T1 025 X 80
40	80	16	T1 040 X 80
60	80	12	T1 060 X 80
80	80	12	T1 080 X 80
100	80	8	T1 100 X 80
120	80	8	T1 120 X 80
25	100	8	T1 025 X 100
40	100	8	T1 040 X 100
60	100	4	T1 060 X 100
80	100	4	T1 080 X 100
100	100	4	T1 100 X 100
150	100	4	T1 150 X 100

Pack quantities of trunking may be split on request, with a surcharge.

T1 PVC Blue Trunking

W (mm)	H (mm)	No. of 2m Lengths / Pack	Part No.
25	30	36	T1 025 X 30B
40	40	18	T1 040 X 40B
60	40	12	T1 060 X 40B
25	60	18	T1 025 X 60B
40	60	18	T1 040 X 60B
60	60	12	T1 060 X 60B
25	80	24	T1 025 X 80B
40	80	16	T1 040 X 80B
60	80	12	T1 060 X 80B
80	80	12	T1 080 X 80B
100	80	8	T1 100 X 80B
100	100	4	T1 100 X 100B



The narrow slot T1E is ideal for small sized cables commonly used in electric and electronic control panels and has a side slot opening of 4mm.

T1E Narrow Slot Trunking

W (mm)	H (mm)	No. of 2m Lengths / Pack	Part No.
25	40	36	T1E 025 X 40
40	40	20	T1E 040 X 40
60	40	12	T1E 060 X 40
80	40	12	T1E 080 X 40
100	40	8	T1E 100 X 40
25	60	24	T1E 025 X 60
40	60	18	T1E 040 X 60
60	60	12	T1E 060 X 60
80	60	12	T1E 080 X 60
100	60	8	T1E 100 X 60
120	60	8	T1E 120 X 60
25	80	24	T1E 025 X 80
40	80	16	T1E 040 X 80
60	80	12	T1E 060 X 80
80	80	12	T1E 080 X 80
100	80	8	T1E 100 X 80
120	80	8	T1E 120 X 80
100	100	4	T1E 100 X 100

The TD range, made in multiples of 12.5mm, offers a range of sizes that are equivalent to imperial dimensions.

TD Trunking

W (mm)	H (mm)	No. of 2m Lengths / Pack	Part No.
25	25	24	TD 025 X 25
37.5	25	32	TD 037.5 X 25
50	37.5	12	TD 050 X 37.5
25	50	24	TD 025 X 50
37.5	50	12	TD 037.5 X 50
50	50	12	TD 050 X 50
75	50	12	TD 075 X 50
100	50	8	TD 100 X 50
37.5	75	12	TD 037.5 X 75
50	75	12	TD 050 X 75
75	75	8	TD 075 X 75
100	75	8	TD 100 X 75

Accessories

Spare Covers

Trunking Width (mm)	No. in Pack	Part No.
15	25	COV 015
25	25	COV 025
40	25	COV 040
50	25	COV 050
60	25	COV 060
75	25	COV 075
80	25	COV 080
100	20	COV 100
120	20	COV 120
150	20	COV 150

For retaining cables during wiring operations where the panel is in a vertical position. They are anchored in the recessed boss in the trunking base with a simple rotating movement.

Cable Retaining Clips

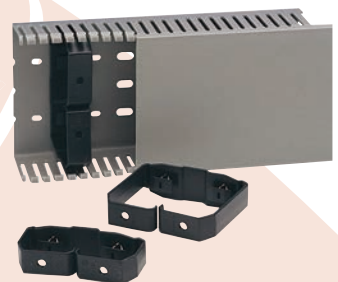
W (mm)	H (mm)	No. of 2m Lengths / Pack	Part No.
40	40	40	CL 040 X 40
40	60	120	CL 040 X 60
40	80	20	CL 040 X 80
60	40	40	CL 060 X 40
60	60	20	CL 060 X 60
60	80	20	CL 060 X 80
60	100	20	CL 060 X 100
80	60	20	CL 080 X 60
80	80	10	CL 080 X 80
80	100	10	CL 080 X 100
100	40	10	CL 100 X 40
100	60	10	CL 100 X 60
100	80	30	CL 100 X 80
100	100	5	CL 100 X 100
120	60	50	CL 120 X 60
120	80	10	CL 120 X 80
150	100	5	CL 150 X 100

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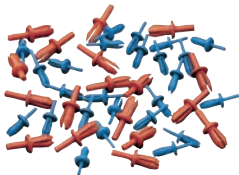
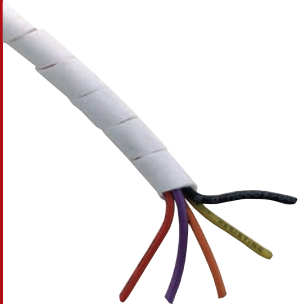
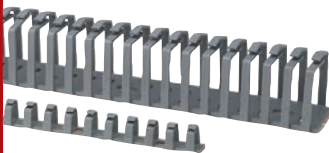
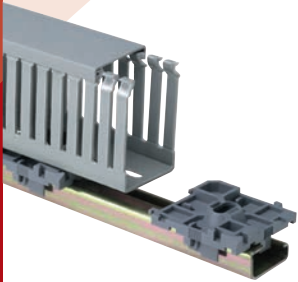
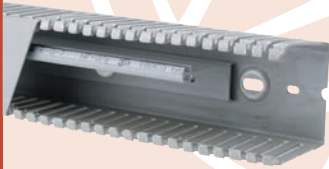


Approvals

CEI
CSA
DIN
DIN EN
DIN VDE
NF
UL (except Blue T1)
EN 50 022
EN 50 035
EN 50 045
IEC 1084-1
CE Marked
NATO



IBOCO



The TR1, TR1-E and TRD wire retainers come in one single size with predetermined breaklines to adapt them to different duct width: 100, 80, 60 and 40 for T1/ T1-E and 100, 75, 50 and 37.5 for TD. With a perfect fitting on duct fingers owing to an anti-rotation tooth, the new unique profile allows for a more rapid mounting.

Wire Retainers

Description	Colour	Pack Qty.	Part No.
Rigid PVC, Self extinguishing	Black	100	TR1
		100	TR1-E

For identification of control gear & switch gear. Ductamark is mounted onto the side wall of T1 trunking.

Ductamarks

Single Tag Dimensions	Pack Qty.	Part No.
15 x 26mm	100	DUCTAMARK 1
33 x 51mm	25	DUCTAMARK 2

Allows the physical separation of circuits with different voltages or functions within the same duct and fixed using ZP inserts.

Separators

For using with trunking width	Pack Qty.	Part No.
40mm	32	SEP E 040
60mm	20	SEP E 060
80mm	12	SEP E 080

Used to fix separator strips or small trunking. Simple snap fit. ZP2 can be stacked to provide different fixing planes and can be used with cable ties for tightening wire bundles inside trunking.

ZP Fixing Inserts

Pack Qty.	Part No.
1000	ZP1
500	ZP2

A convenient method of mounting T1 and T1E trunking on European standard rails using ZP2 fixing inserts.

Dinblok Rail Adaptors

For use with Rail	Pack Qty.	Part No.
TS35	25	DINBLOK3

Maximum temperature 70°C. Flexible grey polypropylene self-extinguishing, non toxic ducting. Supplied in 500mm lengths with adhesive backing.

Dinosauro

W (mm)	H (mm)	Pack Qty.	Part No.
13	15	42	DN AS
20	24	16	DN AM
30	33	12	DN AL

An expanding polythene spiral wrap for fast expanding and economical construction of cable bundles. Easily removed for re-use.

Technical Data

Max. operating temp. 70°C
Type P Halogen free

Spiralite

Type	For Cable Bundles Dia.		Pack Qty.	Part No.
	Min.	Max.		
P - Natural	1.5	12	50	P1
	6	50	25	P2
	9.5	75	25	P3
	12	100	20	P4

Insulating, functional & easy to apply. Good temperature resistance. Extremely short installation time. Material - Polyamide.

Rivets

Colour	Diameter (mm)	Pack Qty.	Part No.
Light BLue	4	100	R4
Orange	6.3	100	R6

Independent sliding metal core for maximum tool stability, enabling greater pressure to be exerted when inserting the rivet into the hole. Soft plastic ergonomic handle. Long 233mm metal body for easy insertion into narrow and deep wiring ducts.

Rivets

Rivet Length (mm)	Pack Qty.	Part No.
4	4	RT4
6	4	RT6

Betaduct Trunking

Material: Rigid self-extinguishing PVC (UL94 V0)
 Colour: Grey to RAL 7030 or blue to RAL 5015
 Temperature rating: -15°C +60°C (+5°F to +140°F)

Supplied in 2 metre lengths complete with cover.
 The open slot range has a side slot opening of 8mm (generally).



Open Slot PVC Grey Trunking

W (mm)	H (mm)	No. of 2m Lengths / Pack	Part No.
25	53	12	10450018
29	41	12	10450022
29	54	12	10450023
29	79	8	10450024
30	105	8	10450025
39	79	8	10450034
41	41	12	10450032
41	54	8	10450033
43	105	8	10450035
54	28	12	10450051
54	41	8	10450052
54	54	8	10450053
55	79	8	10450054
56	105	4	10450055
78	54	8	10450073
80	41	8	10450072
80	80	8	10450074
80	105	4	10450075
107	54	4	10450103
107	80	4	10450104
107	104	4	10450105
107	130	4	10450106
131	78	4	10450124

Pack quantities of trunking may be split on request, with a price surcharge.

- 10mm slot pitch
- 18 sizes available in grey, white or black
- Ideal for use with slimmer terminal blocks where more access is required with a slot opening of 4mm.

Narrow Slot PVC Grey Trunking

W (mm)	H (mm)	No. of 2m Lengths / Pack	Part No.
25	53	12	10470018
29	41	12	10470022
29	54	12	10470023
29	79	8	10470024
30	105	8	10470025
41	41	12	10470032
41	54	8	10470033
41	79	8	10470034
43	105	8	10470035
54	54	8	10470053
55	79	8	10470054
56	41	8	10470052
56	105	4	10470055
78	54	8	10470073
80	80	8	10470074
80	40	8	10470072
80	105	4	10470075
107	54	4	10470103
107	80	4	10470104
107	104	4	10470105



Beta-Nylofix

ECT conduit

Material: Specially modified polyamide (PA 6)
 Colour: Dark grey or black
 Temperature rating: -40°C +105°C (150°C short term)

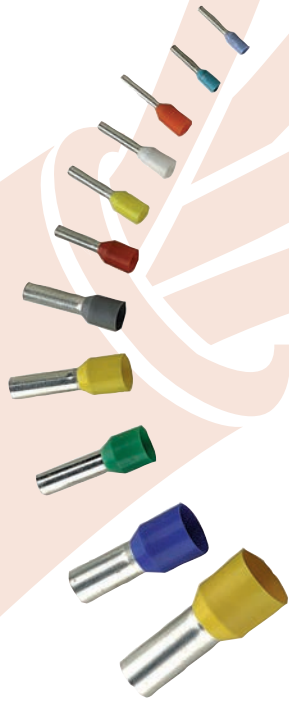
Medium-wall and flexible corrugated conduit for insulating and mechanical protection of cables in the electrical installation of machinery and industrial equipment in accordance with standard EN 60204-1 (Safety of Machinery).



Narrow Slot PVC Grey Trunking

Diameter (mm)			Min. Bending Radius R (static)	Length (M) Per Pack	Part No.
Nominal	Ø Int.	Ø Ext.			
12	12.2	15.8	30	50	ECT-12G
17	16.8	21.2	40	50	ECT-17G
23	22.6	28.5	55	50	ECT-23G

We can supply this conduit with a longitudinal cut for pre-cabing.



Insulated Ferrules

Insulated - German Colour Code

Cable Size (mm ²)	Strip Length (mm)	Colour	Pack Qty.	Part No.
0.25	8	Lt. Blue	5x 100	9026050000
0.25	10	Lt. Blue	500	9025760000
0.34	8	Turquoise	5x 100	9026030000
0.5	10	Orange	500	9004560000
0.5	10	Orange	5x 100	9026060000
0.75	11	White	500	9025960000
0.75	11	White	5x 100	9025700000
0.75	14	White	500	9025910000
1.0	11	Yellow	500	9025970000
1.0	11	Yellow	5x 100	9025710000
1.5	11	Red	500	9025980000
1.5	11	Red	5x 100	9025720000
1.5	21	Red	500	0565600000
2.5	11	Blue	500	9019160000
2.5	11	Blue	5x 100	9026100000
2.5	21	Blue	500	9019180000
4.0	12	Grey	500	9019190000
4.0	15	Grey	500	9019200000
4.0	20	Grey	100	9019210000
6.0	15	Black	100	0533500000
6.0	20	Black	100	0565700000
10.0	16	Ivory	100	0534200000
10.0	22	Ivory	100	0565800000
16.0	16	Green	100	0565900000
16.0	22	Green	100	0566000000
25.0	21	Brown	50	0317000000
25.0	26	Brown	50	0317100000
35.0	21	Beige	50	0317200000
35.0	29	Beige	50	0317300000
50.0	26	Olive	50	0444200000

Insulated - French Colour Code

Cable Size (mm ²)	Strip Length (mm)	Colour	Pack Qty.	Part No.
0.5	10	White	500	9004590000
0.75	11	Lt. Blue	500	9018550000
1.0	11	Red	500	9018560000
1.5	11	Black	500	9025240000
2.5	11	Grey	500	9021070000
4.0	12	Orange	500	9021100000
6.0	15	Green	100	9021130000
10.0	16	Brown	100	9021150000
16.0	16	White	100	9021170000
25.0	21	Black	50	9021190000

Insulated Twin Conductor - German Colour Code

Cable Size (mm ²)	Strip Length (mm)	Colour	Pack Qty.	Part No.
2 x 0.5	11	Orange	5x 100	9004440000
2 x 0.75	11	White	5x 100	9018510000
2 x 1.0	12	Yellow	5x 100	9018650000
2 x 1.5	12	Red	5x 100	9004410000
2 x 2.5	13	Blue	5x 50	9004430000

Insulated Twin Conductor - French Colour Code

Cable Size (mm ²)	Strip Length (mm)	Colour	Pack Qty.	Part No.
2 x 0.5	11	White	5x 100	9004780000
2 x 0.75	11	Lt. Blue	5x 100	9018570000
2 x 1.0	12	Red	5x 100	9018540000
2 x 1.5	12	Black	5x 100	9004420000
2 x 2.5	13	Grey	5x 100	9018580000

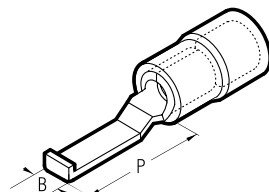
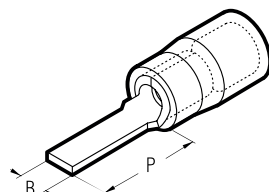
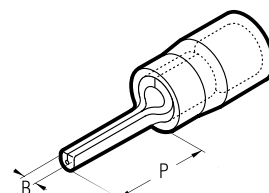
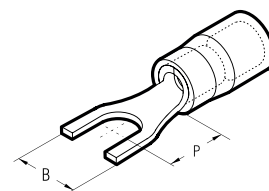
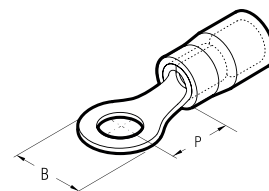
Cable Crimps



Red							
Cable Size (mm ²)	Type	Style	Dimensions (mm)			Pack Qty.	Part No.
			Stud Size	B	P		
3.9 - 6.7	Ring	Insulated	3	5.6	4.5	1000	RF-M 3
			3.5	5.6	4.5	1000	RF-M 3.5
			4	7.0	6.5	1000	RF-M 4
			5	7.8	7.1	1000	RF-M 5
			6	9.4	8.1	1000	RF-M 6
	Spade	Insulated	8	12.0	10.3	1000	RF-M 8
			10	15.5	13.0	1000	RF-M 10
			3	5.5	5.5	1000	RF-U 3
			3.5	6.0	6.5	1000	RF-U 3.5
			4	6.5	7.5	1000	RF-U 4
Pins	Insulated	5	8.5	7.5	1000	RF-U 5	
		6	9.4	8.1	1000	RF-U 6	
Blades	Insulated	1.8	10.0	1000	RF-P 10		
		1.8	12.0	1000	RF-P 12		
Hooked blade	Insulated	3.0	12.8	1000	RF-PP 12		
		3.0	14.8	1000	RF-PP 14		
			3.0	17.5	1000	RF-PPL 30	
			4.6	17.5	1000	RF-PP 46	

Blue							
Cable Size (mm ²)	Type	Style	Dimensions (mm)			Pack Qty.	Part No.
			Stud Size	B	F		
3.9 - 6.7	Ring	Insulated	3	5.6	4.5	1000	BF-M 3
			3.5	5.6	4.5	1000	BF-M 3.5
			4	7.0	6.5	1000	BF-M 4
			5	7.8	7.1	1000	BF-M 5
			6	9.4	8.1	1000	BF-M 6
	Spade	Insulated	8	12.0	10.3	1000	BF-M 8
			10	15.5	13.0	1000	BF-M 10
			3	5.5	5.5	1000	BF-U 3
			3.5	6.0	6.5	1000	BF-U 3.5
			4	6.5	7.5	1000	BF-U 4
Pins	Insulated	5	8.5	7.5	1000	BF-U 5	
		6	9.4	8.1	1000	BF-U 6	
Blades	Insulated	1.8	10.0	1000	BF-P 10		
		1.8	12.0	1000	BF-P 12		
Hooked blade	Insulated	3.0	12.8	1000	BF-PP 12		
		3.0	14.8	1000	BF-PP 14		
			3.0	17.5	1000	BF-PPL 30	
			4.6	17.5	1000	BF-PP 46	

Yellow							
Cable Size (mm ²)	Type	Style	Dimensions (mm)			Pack Qty.	Part No.
			Stud Size	B	F		
3.9 - 6.7	Ring	Insulated	4	7.0	6.5	1000	GF-M 4
			5	7.8	7.1	1000	GF-M 5
			6	9.4	8.1	1000	GF-M 6
			8	12.0	10.3	1000	GF-M 8
			10	15.5	13.0	1000	GF-M 10
	Spade	Insulated	12	19.0	15.1	1000	GF-M 12
			3.5	6.0	6.5	1000	GF-U 3.5
Pins	Insulated	4	6.5	7.5	1000	GF-U 4	
		5	8.5	7.5	1000	GF-U 5	
Blades	Insulated	6	9.4	8.1	1000	GF-U 6	
		1.8	10.0	1000	GF-P 10		
Hooked blade	Insulated	1.8	12.0	1000	GF-P 12		
		3.0	12.8	1000	GF-PP 12		
			3.0	14.8	1000	GF-PP 14	
			3.0	17.5	1000	GF-PPL 30	
			4.6	17.5	1000	GF-PP 46	



DAVICO

keeping electricity firmly in its place



Cable Crimps

Ring Terminals

Size (mm)	Type	Pack Qty.	Yellow Part No.	Blue Part No.	Red Part No.
3		1000	EYR3	EBR3	ERR3
3.7		1000		EBR37	ERR37
4		1000	EYR4	EBR4	ERR4
5		1000	EYR5	EBR5	ERR5
6		1000	EYR6	EBR6	ERR6
8		1000	EYR8	EBR8	ERR8
10		1000	EYR10	EBR10	ERR10
12		1000	EYR12		

Blade Terminals

10		1000	EYBL10	EBBL10	ERBL10
18		1000		EBBL18	ERBL18

Push On Terminals

2.8x0.5	Female	1000		EBP028F5	ERP028F5
2.8x0.8	Female	1000		EBP028F8	ERP028F8
4.8x0.5	Female	1000		EBP048F5	ERP048F5
4.8x0.8	Female	1000		EBP048F8	ERP048F8
	Female	1000	EYP063F	EBP063F	ERP063F
6.3x0.8	Male	1000	EYP063M	EBP063M	ERP063M
	Piggy back	1000	EYPOA63	EBPOA63	ERPOA63

Fully Insulated Push On Terminals

4.8x0.5	Female	1000		EBFP048F5	ERFP048F5
4.8x0.8	Female	1000		EBFP048F8	ERFP048F8
6.3x0.8	Female	1000	EYFP063F	EBFP063F	ERFP063F
9.5x1.1	Female	1000	EYFP095F		

Bullet Terminals

4	Female	1000		EBAB4F	ERAB4F
	Male	1000		EBAB4M	ERAB4M
5	Female	1000	EYAB5F	EBAB5F	
	Male	1000	EYAB5M	EBAB5M	

Pin Terminals

12		1000		EBP12	ERP12
14		1000	EYP14		

Spade Terminals

3.2		1000			ERF3
3.5		1000	EYF3N	EBF3N	ERF3N
4		1000	EYF4N	EBF4N	ERF4N
5		1000	EYF5	EBF5	ERF5
6		1000	EYF6	EBF6	ERF6

Butt Terminals

		1000	EYB	EBB	ERB
--	--	------	-----	-----	-----

Auto Bullet Connectors

Single female	1000			DVSC1
Double female	1000			DVSC2
Brass	1000			DAB

Cable Glands

Compression Glands

Type		Pack Qty.	Black Part No.	White Part No.
M12	Compression	2	NGM12BL	NGM12W
M16	Compression	2	NGM16BL	NGM16W
M20	Compression	2	NGM20BL	NGM20W
M20	Long thread	2	NGM20LTBL	NGM20LTW
M25	Compression	2	NGM25BL	NGM25W
M25	Long thread	2	NGM25LTBL	NGM25LTW
M32	Compression	2	NGM32BL	NGM32W
M40	Compression	2	NGM40BL	NGM40W
M50	Compression	2	NGM50BL	NGM50W
M63	Compression	2	NGM63BL	NGM63W

SWA Glands - LSF (Low Smoke & Fume)

Type	Pack Qty.	Indoor Part No.	Outdoor Part No.
M20S	2	DAVBW20SKIT	DAVCW20SKIT
M20	2	DAVBW20KIT	DAVCW20KIT
M25	2	DAVBW25KIT	DAVCW25KIT
M32	2	DAVBW32KIT	DAVCW32KIT
M40	2	DAVBW40KIT	DAVCW40KIT
M50	2	DAVBW50KIT	DAVCW50KIT
M63	2	DAVBW63KIT	DAVCW63KIT
M75	2	DAVBW75KIT	DAVCW75KIT

Crimp Terminals



Ring											
Stud Size (mm)	Pack Qty.	Cable size (mm ²)	Part No.	Conductor size (mm)	Part No.	Conductor size (mm)	Part No.				
3.2	100	0.5-1.5	RR32	1.5-2.5	BR32	4.0-6.0					
3.7			RR37		BR37						
4.3			RR43		BR43		YR43				
5.3			RR53		BR53		YR53				
6.4			RR64		BR64		YR64				
8.4			RR84		BR84		YR84				
10.5			RR105		BR105		YR105				
12					BR120		YR120				
Spade (Fork)											
3.2 Narrow			100		0.5-1.5		RS32N	1.5-2.5	BS32N	4.0-6.0	
3.7	RS37	BS37		YS37							
3.7 Narrow	RS37N	BS37N									
4.3	RS43	BS43		YS43							
5.3	RS53	BS53		YS53							
6.4	RS64	BS64		YS64							
8.4				YS84							
Butt											
4	100	0.5-1.5		RBC4		1.5-2.5			4.0-6.0		
4.5							BBC45				
6.8					YBC68						
Male Bullet											
4	100	0.5-1.5	RMB40/VR	1.5-2.5		4.0-6.0					
5					BMB50/VR		YMB50/VR				
Female Bullet											
4	100	0.5-1.5	RFB40/VR	1.5-2.5		4.0-6.0					
5					BFB50/VR		YFB50/VR				
Pin											
10	100	0.5-1.5	RP10	1.5-2.5	BP10	4.0-6.0					
14							YP14				
Blade											
9	100	0.5-1.5		1.5-2.5	BB9	4.0-6.0					
10							YB10				
11			RB11								
14			RB14								
18			RB18		BB18		YB18				
Male Tab											
4.8 x 0.8	100	0.5-1.5	RM50/VR	1.5-2.5	BM50/VR	4.0-6.0					
6.3 x 0.8					RM63/VR		BM63/VR	YM63/VR			
Pre-Insulated Female Push On											
2.8 x 0.5	100	0.5-1.5	RF32/05/VR	1.5-2.5		4.0-6.0					
2.8 x 0.8			RF32/08/VR								
4.8 x 0.5			RF50/05/VR		BF50/05/VR						
4.8 x 0.8			RF50/08/VR		BF50/08/VR						
6.3 x 0.8			RF66/08/VR		BF66/08/VR		YF66/08/VR				
8.0 x 0.8					BF80/08/VR						
9.5 x 0.8							BF100/08/VR				
Fully Insulated Female Push On											
2.8 x 0.8			100		0.5-1.5		RF32/FI/VR	1.5-2.5		4.0-6.0	
4.8 x 0.8							RF50/FI/VR		BF50/FI/VR		
6.3 x 0.8	RF66/FI/VR	BF66/FI/VR		YF66/FI/VR							





Cable End Ferrules

Single Entry

Conductor Size (mm ²)	Barrel Length (mm)	Pack Qty.	French Colour Codes		German Colour Codes	
			Colour	Part No.	Colour	Part No.
0.25	6	1000	Violet	CEF025F	Light Blue	CEF025G
0.34		1000	Pink	CEF034F	Turquoise	CEF034G
0.5		500	White	CEF508F	Orange	CEF508G
0.75		500	Blue	CEF7508F	White	CEF7508G
1.0	8	500	Red	CEF108F	Yellow	CEF108G
1.5		500	Black	CEF1508F	Red	CEF1508G
2.5		500	Grey	CEF2508F	Blue	CEF2508G
4	9	500	Orange	CEF409F	Grey	CEF409G
6		500	Green	CEF612F	Black	CEF612G
10		100	Brown	CEF1012F	Ivory	CEF1012G
16	12	100	Ivory	CEF25016F	Green	CEF25016G
25		100	Black	CEF25016F	Brown	CEF25016G
35		100	Red	CEF35016F	Beige	CEF35016G

Twin Entry

Conductor Size (mm ²)	Barrel Length (mm)	Pack Qty.	French Colour Codes		German Colour Codes	
			Colour	Part No.	Colour	Part No.
0.5		1000	White	TCEF508F	Orange	TCEF508G
0.75		1000	Blue	TCEF7508D	White	TCEF7508G
1.0	8	1000	Red	TCEF108F	Yellow	TCEF108G
1.5		1000	Black	TCEF1508F	Red	TCEF1508G
2.5	10	1000	Grey	2X2.5BLF	Blue	TCEF2510G
4	12	100	Orange	2X4.0BLF	Grey	TCEF412G
6		100	Yellow	TCEF614F	Black	TCEF614G
10	14	100	Red	TCEF1014F	Ivory	TCEF1014G
16		100	Blue	TCEF1614F	Green	TCEF1614G

Un-Insulated Copper Tube Terminals

Copper Tube Terminals

Cable Entry Size (mm ²)	Stud Size (mm)	Pack Qty.	Part No.
2.5	4	100	COL 2.5-4
	5		COL 2.5-5
	6		COL 2.5-6
4	5	100	COL 4-5
	6		COL 4-6
	8		COL 4-8
6	5	100	COL 6-5
	6		COL 6-6
	8		COL 6-8
10	10	100	COL 6-10
	6		COL 10-6
	8		COL 10-8
16	10	100	COL 10-10
	8		COL 16-8
	10		COL 16-10
25	12	100	COL 16-12
	8		COL 25-8
	10		COL 25-10
35	12	50	COL 25-12
	10		COL 35-10
	12		COL 35-12
70	16	30	COL 35-16
	10		COL 70-10
	12		COL 70-12
95	16	30	COL 70-16
	10		COL 95-10
	12		COL 95-12
120	16	20	COL 95-16
	12		COL 120-12
	14		COL 120-14
150	16	10	COL 120-16
	20		COL 120-20
	12		COL 150-12
150	14	10	COL 150-14
	16		COL 150-16
	20		COL 150-20

Heat Shrink Tubing

2:1 Ratio in Mini Boxes

As Supplied (Before Recovery) Inside Diameter	After Recovery Inside Diameter	Packaging	Part No.
1.2mm	0.6mm	20m Mini-Box	HSMB 12
1.6mm	0.8mm	17m Mini-Box	HSMB 16
2.4mm	1.2mm	15m Mini-Box	HSMB 24
3.2mm	1.6mm		HSMB 32
4.8mm	2.4mm		HSMB 48
6.4mm	3.2mm	12m Mini-Box	HSMB 64
9.5mm	4.7mm		HSMB 95
12.7mm	6.4mm	8m Mini-Box	HSMB 127
19.1mm	9.5mm		HSMB 191
25.4mm	12.7mm	5m Mini-Box	HSMB 254

The products listed are available in the following colours:

Black, Clear, Red, Yellow, Blue, White, Green, Brown, Grey and Earth (Green/Yellow). Please specify when ordering.

Braided Sheathing

Specification:

A high quality braided cable sheathing, manufactured in polyester, self extinguishing to UL94 VW1.

Operating temperature -75°C to +150°C.

Wall thickness 0.6mm +/- 0.1mm.

Supaflex Braided Cable Sheathing

Nominal Diameter (mm)	Size Range (mm)		Part No. 10m	Part No. 100m*
	Minimum	Maximum		
4	3	7	SUP4 Black	SUP4 Black
			SUP4 Grey	SUP4 Grey
6	5	10	SUP6 Black	SUP6 Black
			SUP6 Grey	SUP6 Grey
8	6	14	SUP8 Black	SUP8 Black
			SUP8 Grey	SUP8 Grey
10	8	16	SUP10 Black	SUP10 Black
			SUP10 Grey	SUP10 Grey
12	10	18	SUP12 Black	SUP12 Black
			SUP12 Grey	SUP12 Grey
15	12	22	SUP15 Black	SUP15 Black
			SUP15 Grey	SUP15 Grey
20	15	27	SUP20 Black	SUP20 Black
			SUP20 Grey	SUP20 Grey
25	20	35	SUP25 Black	SUP25 Black
			SUP25 Grey	SUP25 Grey
30	25	45	SUP30 Black	SUP30 Black
			SUP30 Grey	SUP30 Grey
40	35	60	SUP40 Black	SUP40 Black*
			SUP40 Grey	SUP40 Grey*
50	45	73	SUP50 Black	SUP50 Black*
			SUP50 Grey	SUP50 Grey*

*Supplied as 2 x 50m rolls

Partool Hand Tools

Ratchet Crimping Tools

Description	Part No.
Red, blue & yellow pre-insulated terminals	CT 15
Un-insulated terminals 1.0 -6mm ² (For Barrel Type)	UCT 15
1.5 to 16mm ² copper tube terminals	CT 1.5-16
10 & 16mm ² copper tube terminals	CT 10-16
6 to 25mm ² copper tube terminals	CT 6-25
Red & blue insulated flag terminals	CT FLAG
MC3 & MC4 male & female standard solar connectors	CT-MC4
Single Cord End Ferrules 0.14- 2.5mm ²	CEFT 01
Single Cord End Ferrules 0.5-6mm ²	CEFT 2
Single Cord End Ferrules 4-16mm ²	CEFT 2
Single Cord End Ferrules 16-35mm ²	CEFT 3
Twin Cord End Ferrules 0.5-6mm ²	TCEFT1
Equilateral Cord End Ferrule Tool - Self-Adjusting up to 6mm ²	EQCEFT





Hand Tools

Cutting Tool

Copper (mm ²)			Aluminium Stranded	Maximum Dia. (mm)	Tool Part No.
Solid	Stranded	Flexible			
16	25	35	16	-	9002660000
-	300	400	400	45	9202040000
-	500	500	500	55	9202060000

Stripping Tool

Range	Tool Part No.	Spare Blade Part No.
0.08 to 1mm ² / AWG 28-18	9001280000	9001290000
0.08 to 6mm ² / AWG 28-10	9005000000	9005400000
4.5 to 25mm ² Ø	9001540000	9001530000

Stripping / Crimping Tool

Tool - Range	Tool Part No.
0.5 to 2.5mm ² / AWG 20 - 14	9020000000

Ferrules in strips of 50 for use with above tool.

Ferrule Strips

Cable Size (mm ²)	Colour Code (German/French)	Pack Qty.	Part No.
0.5	Orange (G)	10 x 50	9004270000
0.5	White (F)	10 x 50	9004280000
0.75	White (G)	10 x 50	9004290000
0.75	Blue (F)	10 x 50	9004310000
1.0	Yellow (G)	10 x 50	9004320000
1.0	Red (F)	10 x 50	9004330000
1.5	Red (G)	50 x 10	9004340000
1.5	Black (F)	50 x 10	9004350000
2.5	Blue (G)	50 x 10	9004360000
2.5	Grey (F)	50 x 10	9004370000

Crimping Tool for Bootlace Ferrules

Range	Tool Part No.
0.14 to 1.5mm ² / AWG 26 - 16	9005990000
0.5 to 4mm ² / AWG 20 - 12	9012500000
6.0 to 16mm ² / AWG 10 - 6	9014980000
25 to 50mm ² / AWG 3 - 1	9006450000

Screwdrivers

Type	Dimensions (mm)			Tool Part No.
	A	B	C	
SD (uninsulated)	0.6	3.5	100	9008330000
	1.0	5.5	150	9008350000
	0.4	2.5	75	9008370000
	0.5	3.0	100	9008380000
SDI (uninsulated)	0.6	3.5	100	9008390000
	0.8	4.0	100	9008400000
	1.0	5.5	125	9008410000
	1.2	6.5	150	9008420000
	1.6	8.0	200	9008430000
SDIK (Insulated for Philips head screws)			80	9008570000
			100	9008580000

Cable Ties

Manufactured from halogen free polyamide 6.6 nylon
UL 94 Flammability Class V2

UL 1565 approval
Temperature range: -40°C to +100°C

Cable Ties				
L (mm)	W (mm)	Pack Qty.	Natural Part No.	Black Part No.
100	2.5	1000	HFC100N	HFC100B
140	3.6	1000	HFC140N	HFC140B
200	2.5	1000	HFC200LN	HFC200LB
300	4.8	1000	HFC300N	HFC300B
370	4.8	1000	HFC370N	HFC370B
370	7.6	100	HFC370HN	HFC370HB

Mounting Bases			
Size (mm)	Description	Pack Qty.	Part No.
20x20	Natural	100	HFC1/4N
20x20	Black	100	HFC1/4B
28x28	Natural	100	HFC2/4N
28x28	Black	100	HFC2/4B

Cable Markers

Closed marker sleeves for marking uninstalled cables.
Unique profile with spring action bellows covers a wide diameter range;
Designed to interlock when installed to enable easy alignment of multi character markings - Chevron Cut.

Technical Data

Material: Cadmium free rigid PVC
Self extinguishing with good resistance to chemicals,
UV & gamma radiation
Temp.range: -30°C to +70°C

Partex PA Series Selection Chart				
Cable Section (mm ²)	Cable Diam. (mm)	Reel Quantity	Strip Pack Quantity	Part No.
0.2 - 0.7	1.0 - 2.0	1000	1000 (5 x 200)	PY01/3
0.5 - 0.75	1.7 - 2.8	1000	1000 (5 x 200)	PA02/3
0.75 - 4.0	2.5 - 5.0	1000	1000 (5 x 200)	PA1/3
2.5 - 16	4.0 - 10.0	250 disc	500 (5 x 100)	PA2/4
16 - 70	8.0 - 16.0		100 (5 x 20)	PA3/6

Partex PA Series Cable Markers				
Marker Type	Colour	Pack or Reel	Pack Qty.	Part No.
PY01/3	Black on white	Reel	1000	PY01/3B/W/ <input type="checkbox"/> -RL
		Pack	1000	PY01/3B/W/ <input type="checkbox"/> -PK
	Black on yellow	Reel	1000	PY01/3B/Y/ <input type="checkbox"/> -RL
		Pack	1000	PY01/3B/Y/ <input type="checkbox"/> -PK
	Colour coded	Reel	1000	PY01/3C/C/ <input type="checkbox"/> -RL
		Pack	1000	PY01/3C/C/ <input type="checkbox"/> -PK
PA02/3	Black on white	Reel	1000	PA02/3B/W/ <input type="checkbox"/> -RL
		Pack	1000	PA02/3B/W/ <input type="checkbox"/> -PK
	Black on yellow	Reel	1000	PA02/3B/Y/ <input type="checkbox"/> -RL
		Pack	1000	PA02/3B/Y/ <input type="checkbox"/> -PK
	Colour coded	Reel	1000	PA02/3C/C/ <input type="checkbox"/> -RL
		Pack	1000	PA02/3C/C/ <input type="checkbox"/> -PK
PA1/3	Black on white	Reel	1000	PA1/3B/W/ <input type="checkbox"/> -RL
		Pack	1000	PA1/3B/W/ <input type="checkbox"/> -PK
	Black on yellow	Reel	1000	PA1/3B/Y/ <input type="checkbox"/> -RL
		Pack	1000	PA1/3B/Y/ <input type="checkbox"/> -PK
	Colour coded	Reel	1000	PA1/3C/C/ <input type="checkbox"/> -RL
		Pack	1000	PA1/3C/C/ <input type="checkbox"/> -PK
PA2/4	Black on white	Reel	250	PA2/4B/W/ <input type="checkbox"/> -RL
		Pack	500	PA2/4B/W/ <input type="checkbox"/> -PK
	Black on yellow	Reel	250	PA2/4B/Y/ <input type="checkbox"/> -RL
		Pack	500	PA2/4B/Y/ <input type="checkbox"/> -PK
	Colour coded	Reel	250	PA2/4C/C/ <input type="checkbox"/> -RL
		Pack	500	PA2/4C/C/ <input type="checkbox"/> -PK
PA3/6	Black on white	Pack	100	PA3/6B/W/ <input type="checkbox"/> -PK
	Black on yellow	Pack	100	PA3/6B/Y/ <input type="checkbox"/> -PK
	Colour coded	Pack	100	PA3/6C/C/ <input type="checkbox"/> -PK

Accessories	
Description	Part No.
Teflon applicators	For PY01 0.5mm cable PUJ1T
	For PA02 0.5mm cable PUJ3T
	For PA02/PA1 0.75-1.5mm cable PUJ4T
	For PA1 2.5-4mm cable PUJ5T

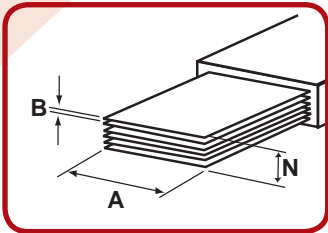
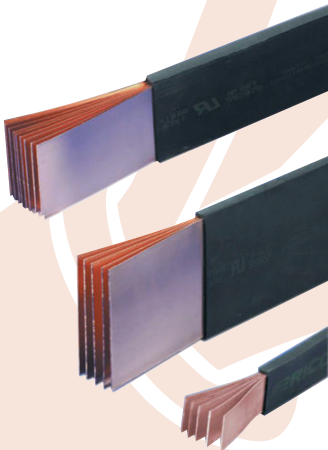


Part No. Completion

When ordering complete the Part No. by adding the following:-

Legend

A, B, C...0, 1, 2, 3 ect



Flexibar - The Flexible Busbar

The current ratings shown below give a 50°C rise above ambient temperature.

Flexibar							
Current	Dimensions (mm)			ΔT (K)	Section (mm ²)	No. Length Per Pack	Part No.
	N	A	B				
125A	8	6	0.5	166	24	10	552400
	3	9	0.8	134	21.6	10	552410
	6	9	0.8	245	43.2	10	552420
	3	13	0.5	167	19.5	10	552440
	2	15.5	0.8	212	24.8	10	552390
	9	9	0.8	265	64.8	10	552430
250A	6	13	0.5	253	39	10	552450
	4	15.5	0.8	320	49.6	10	552460
	2	20	1	275	40	5	552490
	3	20	1	360	60	5	552500
	2	24	1	380	48	5	552550
	6	15.5	0.8	402	74.4	10	552470
400A	10	15.5	0.8	455	124	10	552480
	4	20	1	402	80	5	552510
	5	20	1	420	100	5	552520
	6	20	1	462	120	5	552530
	3	24	1	413	72	5	552560
	4	24	1	465	96	5	552570
	2	32	1	406	64	5	552620
	3	32	1	480	96	5	552630
	2	40	1	455	80	5	552690
	5	24	1	514	120	5	552580
	6	24	1	566	144	5	552590
	500A	4	32	1	548	128	5
3		40	1	522	120	5	552700
4		40	1	615	160	5	552710
3		50	1	590	150	5	552760
10		20	1	645	200	5	552540
8		24	1	678	192	5	552600
630A	5	32	1	640	160	5	552650
	6	32	1	715	192	5	552660
	5	40	1	760	200	5	552720
	4	50	1	727	200	5	552770
	10	24	1	800	240	5	552610
	8	32	1	860	256	5	552670
800A	6	40	1	860	240	5	552730
	5	50	1	930	250	5	552780
	4	63	1	855	252	2	552830
	3	80	1	827	240	2	552880
	10	32	1	1040	320	5	552680
	8	40	1	1040	320	5	552740
1000A	10	40	1	1181	400	5	552750
	6	50	1	1035	300	2	552790
	8	50	1	1175	400	2	552800
	5	63	1	1030	315	2	552840
	6	63	1	1215	378	2	552850
	4	80	1	1015	320	2	552890
1250A	5	80	1	1175	400	2	552900
	10	50	1	1395	500	2	552810
	8	63	1	1395	504	2	552860
	6	80	1	1375	480	2	552910
	5	100	1	1385	500	2	552950
	6	100	1	1550	600	2	552960
1600A	10	63	1	1600	630	2	552870
	8	80	1	1600	640	2	552920
	10	80	1	1775	800	2	552930
	8	100	1	1815	800	2	552970
	10	100	1	1985	100	2	552980
	12	100	1	2115	1200	2	552990
	10	120	1	2330	1200	2	538650

Flexibar is supplied in 2m lengths. The Lengths per pack are given for convenience, common sizes are available per 2m length.

Insulated Braided Shunt (IBS)

- The best alternative to cable!
- No cutting, no stripping, no crimping
- More flexible connection
- Pre-punched: ready to use
- Quick and easy to install
- Max. working temperature: 105°C
- IEC 60439.1 & IEC 61439.1
- LSHF flame retardant

IBSADV 25

Current	S (mm ²)	L1 (mm)	L2 (mm)	J (mm)	K (mm)	M (mm)	Ø1 (mm)	Ø2 (mm)	No. Per Pack	Length	Weight (Kg)	Part No.
160A	25	IBSADV25-230-8-10	252	230	20	6	1.9	8.5	10.5	10	0.095	534500
		IBSADV25-330-8-10	352	330							0.14	534501
		IBSADV25-430-8-10	452	430							0.17	534502
		IBSADV25-530-8-10	552	530							0.21	534503
		IBSADV25-630-8-10	652	630							0.25	534504

IBSADV 50

250A	50	IBSADV50-230-10	255	230	20	7.5	3.8	10.5	10.5	10	0.16	534507
		IBSADV50-330-10	355	330							0.22	534508
		IBSADV50-430-10	455	430							0.29	534509
		IBSADV50-530-10	555	530							0.35	534510
		IBSADV50-630-10	655	630							0.41	534511

IBSADV 120

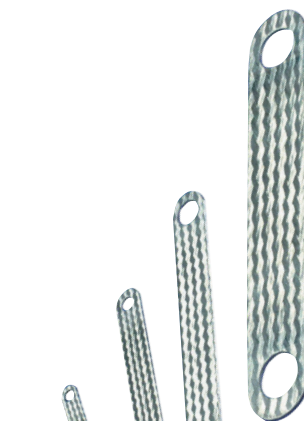
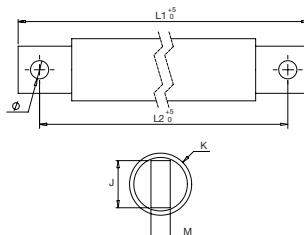
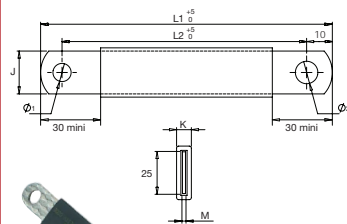
Current	S (mm ²)	L1 (mm)	L2 (mm)	J (mm)	K (mm)	M (mm)	Ø (mm)	No. Per Pack	Length	Weight (Kg)	Part No.
400A	120	IBSADV120-330-10	354	330	24	27	10	10.5	2	0.51	534514
		IBSADV120-430-10	454	430						0.67	534515
		IBSADV120-530-10	554	530						0.82	534516
		IBSADV120-630-10	654	630						0.98	534517
		IBSADV120-830-10	854	830						1.29	534518

IBSADV 185

500A	185	IBSADV185-330-10	354	330	24	31	15	10.5	2	0.82	534520
		IBSADV185-430-10	454	430						1.07	534521
		IBSADV185-530-10	554	530						1.26	534522
		IBSADV185-630-10	654	630						1.48	534523
		IBSADV185-830-10	854	830						1.90	534524

IBSADV 240

630A	240	IBSADV240-330-10	356	330	32	36	15	12.5	2	1.03	534526
		IBSADV240-430-10	456	430						1.34	534527
		IBSADV240-530-10	556	530						1.65	534528
		IBSADV240-630-10	656	630						1.96	534529
		IBSADV240-830-10	856	830						2.58	534530



Earth Braids with Integral Palms

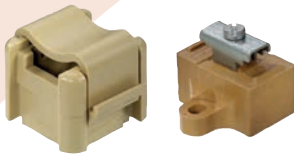
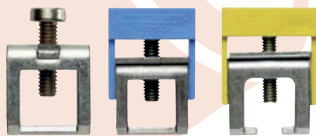
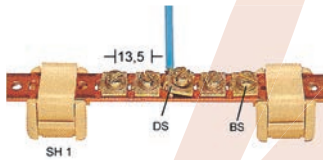
Braids with solidified palms where the contact areas are treated with solder before cutting and punching. These can be used for very short power connections between equipment up to 500A or for all earthing and bonding applications. Excellent resistance to vibration and fatigue with rounded ends to give a good appearance.

Working temperature: Up to 105°C
UL E22029

MBJ Series Earth Braids

Current Amps	Size (mm) L X W	Section (mm ²)	Hole Diameter (mm)	Part No.
40	150 x 13	6	6.5	556600
75	200 x 12	10	6.5	556930
	150 x 15	16	8.5	556630
120	200 x 15	16	8.5	556640
	250 x 15	16	8.5	556650
	300 x 15	16	8.5	556660
	500 x 15	16	8.5	556940
	150 x 23	25	10.5	556680
150	200 x 23	25	10.5	556690
	300 x 23	25	10.5	556710
	500 x 23	25	10.5	556950
	150 x 23	35	10.5	556780
197	200 x 23	35	10.5	556790
	300 x 23	35	10.5	556810
	500 x 23	35	10.5	556970
250	150 x 28	50	10.5	556830
	200 x 28	50	10.5	556840
	300 x 28	50	10.5	556860
	500 x 28	50	10.5	556980
290	300 x 28	70	10.5	563460
	500 x 28	70	10.5	563490
349	500 x 50	100	16.5	563500
	500 x 50	100	16.5	563520





Busbar Systems

In panels and switchgear it may be necessary to unite the N and protective leads to a central point. For this busbars are available to which numerous conductors can be attached without taking up too much space.

Pre-Drilled Busbar

Busbar Type (length 1m)	Size (mm)	Current	Part No.
Steel	12 x 2	45A	0280300000
Copper	15 x 2	80A	0280200000

Accessories for Pre-Drilled Busbar

Type	Description	Type	Part No.
DS	Clamp	Copper / Steel	0280100000
BS	Screw	Copper / Steel	0296700000
SH1	Support block	Copper / Steel	0299860000

Busbars

Busbar Type (length 1m)	Size (mm)	Current	Part No.
Copper	10 x 3	140A	0348900000
Copper	15 x 6	265A	0357400000

Clamping Yokes

Type	Size (mm)	Busbar Size	Part No.
Without Cover			
ZB4	0.5...4mm	10 x 3	0316500000
ZBE6	2.5...6mm	10 x 3	0459500000
ZB10	2.5...10mm	10 x 3	1261300000
ZB16	2.5...16mm	10 x 3	0316600000
ZB35	16...35mm	10 x 3	0266500000
AK95	16...50mm	15 x 6	0364200000

Blue Insulating Cap			
ZB4	0.5...4mm	10 x 3	0475480000
ZBE6	2.5...6mm	10 x 3	0526080000
ZB16	2.5...16mm	10 x 3	0502980000
ZB35	16...35mm	10 x 3	0502780000

Green / Yellow Insulating Cap			
ZB4	0.5...4mm	10 x 3	0475460000
ZBE6	2.5...6mm	10 x 3	0526060000
ZB16	2.5...16mm	10 x 3	0502960000

Support Blocks

Type	Size (mm)	Part No.
SH1 Complete	10 x 3 or 12 x 2 or 15 x 2	0299860000
SH1 Socket	10 x 3 or 12 x 2 or 15 x 2	0401460000
SH1 Yoke	10 x 3 or 12 x 2 or 15 x 2	0635960000
SH1 Fixing screw M4 x 9		0103300000
SH2 S	10 x 3 or 15 x 6	0641720000
SH3	10 x 3	0556660000



Low Voltage Insulators

Made from polyamide material reinforced with glass fibre and Halogen Free and self extinguishing to UL94V0, IEC 60439.1. Working temperature: -40°C to +130°C

Insulators

Type	Diameter (mm)	Height (mm)	Thread	Part No.
ISO20M4	15	20	M4	548410
ISO20M6	15	20	M6	548420
ISO25M5	18	25	M5	548700
ISO25M6	18	25	M6	548430
ISO30M6	26	30	M6	548440
ISO30M8	26	30	M8	548450
ISO35M6L	34	35	M6	548470
ISO35M8	34	35	M8	548480
ISO35M10	34	35	M10	548490
ISO40M6	40	40	M6	548500
ISO40M8	40	40	M8	548510
ISO40M10	40	40	M10	548520
ISO50M6	41	50	M6	548570
ISO50M8	41	50	M8	548580
ISO50M10	41	50	M10	548590
ISO60M8	44	60	M8	548600
ISO60M10	44	60	M10	548610
ISO70M12	52	10	M12	548620
ISO70M16	52	10	M16	548630
ISO80M12	52	80	M12	548660
ISO80M16	52	80	M16	548670
ISO100M12	46	100	M12	548680

Single Pole Distribution Blocks

The Erico single pole distribution blocks can be mounted on TS35 DIN rail or base mounted using 2 x M5 screws. They have an IP20 rating.

Type	Rating Amps	Cable Size (mm ²)		Part No.
		Input	Output	
UD80A	80	6...16	4 x 2.5...6 2 x 2.5...16	569010
UD125A	125	10...35	6 x 2.5...16	569020
UDJ160A	160	6...16	6 x 2.5...16	569030
UD250A	250	35...120	2 x 2.5...35 5 x 2.5...16 4 x 2.5...10	569040
UD400A	400	95...185	2 x 2.5...35 5 x 2.5...16 4 x 2.5...10	569050
UDF500A*	500	Accepts flexibar from 4 x 15.5...6 x 24 (552460) (552590)	2 x 2.5...35 5 x 2.5...16 4 x 2.5...10	569060

* For flexibars see page 6.13

Accessories		
Type	For Terminal Block	Part No.
Jumper / Plug	UDJ125A-UDJ160A	569150
FLG 250 brass connection lug	UD250	569160
FLG 400 brass connection lug	UD400	569170

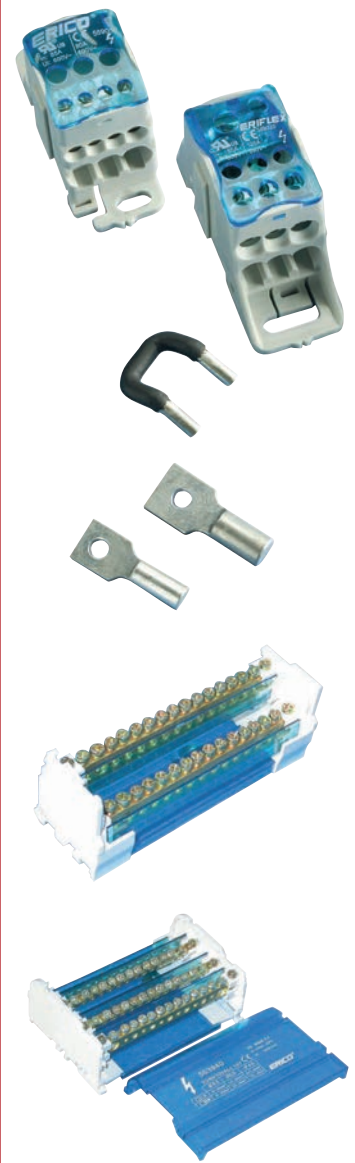
Two and Four Pole Distribution blocks

A range of DIN rail mounting distribution blocks. Manufactured from self extinguishing V0 material, each block comes complete with a protective transparent cover.

Protection: Transparent cover
Self extinguishing: UL94 V-0

Single Pole								
Type	Rating Amps	No. Outputs Per Pole	Cable Size (mm ²)		H (mm)	W (mm)	D (mm)	Part No.
			Input	Output				
2 Pole								
BD40A	40	15	4...10		50	130	50	563720
BD80/100A	100	6	10...25		50	64	50	563900
BD80/100AL	100	14	10...25		50	130	50	563910
BD100/125A	125	6	10...35		50	130	50	563800
BD100/125AL	125	14	10...35		50	130	50	563810
4 Pole								
TD40A	40	12	4...10		90	100	50	563740
TD80/100A	100	6	10...25		90	64	50	563920
TD80/100AL	100	10	10...25		90	100	50	563930
TD80/100ALL	100	14	10...25		90	130	50	563940
TD100/125A	100	6	10...35		90	109	50	563820
TD100/125AL	125	10	10...35		90	147	50	563830
TD100/125LL	125	14	10...35		90	147	50	563840
TD160AL	160	11	10...35		90	182	50	563990

ERIFLEX

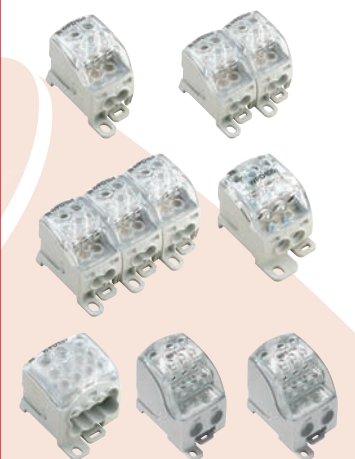


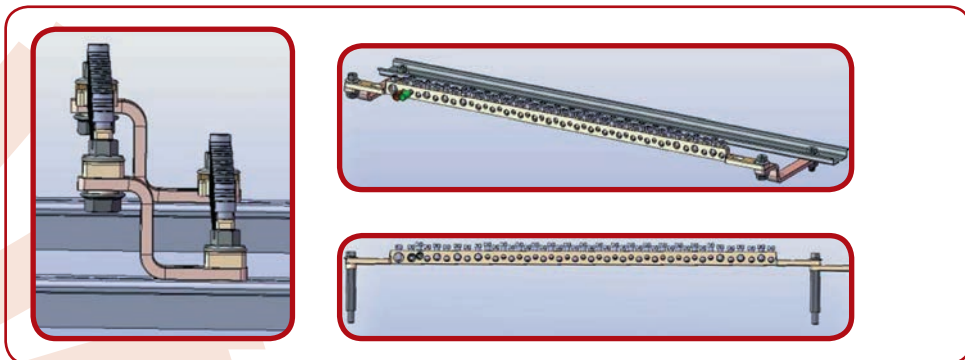
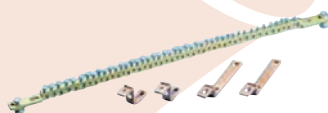
Phase Distributor Blocks

W-Series terminal blocks are optimised to guarantee both convenience and space gains, ensures a secure and convenient connection at the power feed-in.

W-Series Distribution Blocks			
Description	Voltage	Current	Part No.
WPD 104 1x25+1x16/2x16+3x10 Gy	690V AC 1000V DC	101A	1562000000
WPD 204 2x25/4x16+6x10 2xGy		101A	1562150000
WPD 304 3x25/6x16+9x10 3xGy		101A	1562160000
WPD 105 1x35+1x16/2x25+3x16 Gy		125A	1562170000
WPD 205 2x35/4x25+6x16 2xGy		125A	1562180000
WPD 305 3x35/6x25+9x16 3xGy		125A	1562190000
WPD 106 1x70/2x25+3x16 Gy		160A	1562210000
WPD 107 1x95/2x35+8x25 Gy		232A	1562220000
WPD 108 1x120/2x35+3x25+4x16 Gy		250A	1562100000
WPD 109 1x185/2x35+3x25+4x16 Gy		353A	1562090000

Weidmüller





Earthing Parts

- Universal fixing
- 44 connections
- Easy connections due to chamfer
- Rigid bar
- High conductivity brass quality
- Brackets kit for easy fixing

EB 44 Earth Bar

Type	Part No.
EB 44	568660
Accessories	
EBB KDR Kit DIN rail	568665
EBB KP Kit plate	568666

Earthing and Neutral Busbar

- EB 12: earthing brass busbar 13 x 6 for 10 connections 16mm² and 2 connections 35mm²
- EB 36: earthing copper busbar 15 x 4 equipped with 3 x EB12
- EB 168: earthing brass busbar 8 x 8 for 168 connections 10mm² maxi

EB 12...168 Earth / Neutral Busbars

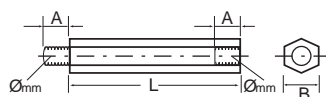
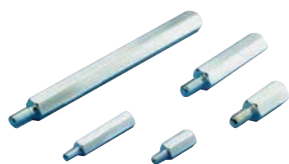
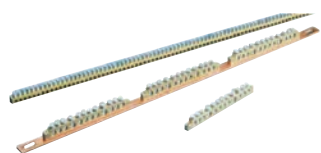
Type	Part No.
EB12	568610
EB36	568620
EB168	568630

Metallic Spacers

- Metallic hexagonal spacers
- Zinc plated steel
- To make higher plates, screens or profiles
- Male-female allowing stable mounting

Single Pole

Type	L (mm)	Ø (mm)	A (mm)	B (mm)	Part No.
DMH 10M4	10	M4	8-10	7	561560
DMH 15M4	15	M4	8-10	7	561570
DMH 20M4	20	M4	8-10	7	561580
DMH 25M4	25	M4	8-10	7	561590
DMH 30M4	30	M4	8-10	7	561600
DMH 35M4	35	M4	8-10	7	561610
DMH 40M4	40	M4	8-10	7	561620
DMH 50M4	50	M4	8-10	7	561630
DMH 60M4	60	M4	8-10	7	561640
DMH 15M5	15	M5	10	8	561660
DMH 20M5	20	M5	10	8	561670
DMH 25M5	25	M5	10	8	561680
DMH 30M5	30	M5	10	8	561690
DMH 35M5	35	M5	10	8	561700
DMH 40M5	40	M5	10	8	561710
DMH 50M5	50	M5	10	8	561720
DMH 60M5	60	M5	10	8	561730
DMH 70M5	70	M5	10	8	561740
DMH 80M5	80	M5	10	8	561750
DMH 15M6	15	M6	12	8	561760
DMH 20M6	20	M6	12	8	561770
DMH 30M6	30	M6	12	8	561780
DMH 40M6	40	M6	12	8	561790
DMH 50M6	50	M6	12	8	561800
DMH 60M6	60	M6	12	8	561810
DMH 70M6	70	M6	12	8	561820
DMH 80M6	80	M6	12	8	561830
DMH 90M6	90	M6	12	8	561840
DMH 100M6	100	M6	12	8	561850



7

AUTOMATION

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Millennium3 Smart Series

Compact range with large display.

- Highly visible blue LCD with 4 lines of 18 characters and configurable backlighting
- Allow the use of the entire library of specific functions blocs of the software workshop
- Extended temperature range (-20°C to +70°C)
- Analogue inputs 0-10V DC, Potentiometer, NTC, LDR (0-20 mA/PT100 with converters)
- Selective parameter setting: you can choose the parameters that can be adjusted on the front panel

Relay

Inputs	Outputs		Supply Volage	LCD Display & Keyboard	Real-time Clock	Part No.
	Digital	Analogue				
8	-	4	24V AC	Yes	-	88974044
			110-230V AC	No	-	88974024
		4	12V DC	Yes	-	88974043
			24V DC	No	-	88974023
			24V DC	Yes	-	88970045
			24V DC	No	-	88970041
12	8	4	24V DC	Yes	-	88970021
			24V DC	No	-	88970042
		8	24V AC	Yes	-	88970054
			110-230V AC	No	-	88970034
			12V DC	Yes	-	88970053
			24V DC	No	-	88970033
8	8	24V DC	Yes	-	88970055	
		24V DC	No	-	88970051	
		4	24V DC	Yes	-	88970031
						88970052

Accessories

Description	Part No.
Modbus (Slave)	88970250
Ethernet (Slave)	88970270
M3MOD Modem interface	88970117
STN Modem	88970118
GSM Modem	88970119
Programming software "multilingual" (CD-ROM)	88970100
Alarm Management software (CD-ROM)	88970116
Serial connection cable (millennium 3 to PC)	88970102
USB connection cable (millennium 3 to PC)	88970109
Bluetooth interface	88970104
Memory cartridge (EEPROM)	88970106



Zelio Logic Smart Relays

Compact Smart Relays with Display

Number of I/O	Inputs		Outputs		Clock	Part No.
	Digital	Analogue	Relay	Transistor		
Supply - 24V AC						
12	8	-	4	-	Yes	SR2 B121B
10	12	-	8	-	Yes	SR2 B201B
Supply - 100...240V AC						
10	6	-	4	-	No	SR2 A101FU
12	8	-	4	-	Yes	SR2 B121FU
20	12	-	8	-	No	SR2 A201FU
					Yes	SR2 B201FU
Supply ... 12V DC						
12	8	4	4	-	Yes	SR2 B121JD
20	12	6	8	-	Yes	SR2 B201JD
Supply ... 24V DC						
10	6	-	4	-	No	SR2 A101BD
12	8	4	4	-	Yes	SR2 B121BD
			-	4	Yes	SR2 B122BD
20	12	6	8	-	No	SR2 A201BD
			8	-	Yes	SR2 B201BD
			-	8	Yes	SR2 B202BD

Zelio Soft 2 Software for PC

Description	Application	Part No.
Programming software "Zelio Soft 2", multi-language	For PC, supplied on CD-ROM, compatible with Windows 98, NT, 2000, XP	SR2 SFT01

Connection Accessories

Description	Application	Length (m)	Part No.
Connecting cable	Between the PC (USB connector) and the Zelio Logic smart relay	3	SR2 USB01

Compact "Discovery" Packs

Number of I/O	Description of compact smart relay with display	Part No.
Supply - 100...240V		
12	SR2 B121FU	SR2 PACKFU
20	SR2 B201FU	SR2 PACK2FU
Supply ... 24V		
12	SR2 B121BD	SR2 PACKBD
20	SR2 B201BD	SR2 PACK2BD

Contents: Compact smart relay with display, "Zelio Soft 2" programming software on CD-Rom, Cable SR2 USB01 for connection to PC

LOGO! Programmable Relays

Logo programmable relays are available with relay or transistor outputs, making the range suitable for most applications.

- Flexible options at the press of a key
- 36 different functions can be connected at a click of a button or by means of PC Software.
- User Friendly and simple duplication of the control program by means of an optional program module

Basic Modules with Display

Description	Part No.
LOGO! 24CE 8DI/4DO	6ED1 052-1CC08-0BA0
LOGO! 12/24RCE 8DI/4DO relay	6ED1 052-1MD08-0BA0
LOGO! 24RCE 8DI/4DO relay	6ED1 052-1HB08-0BA0
LOGO! 230RCE 8DI/4DO relay	6ED1 052-1FB08-0BA0

Basic Modules without Display

Description	Part No.
LOGO! 24CEo 8DI/4DO	6ED1 052-2CC08-0BA0
LOGO! 12/24RCEo 8DI/4DO relay	6ED1 052-2MD08-0BA0
LOGO! 24RCEo 8DI/4DO relay	6ED1 052-2HB08-0BA0
LOGO! 230RCEo 8DI/4DO relay	6ED1 052-2FB08-0BA0

Expansion Modules Digital

Description	Part No.
LOGO! DM8 24, 4DI/4DO	6ED1 055-1CB00-0BA2
LOGO! DM8 12/24R, 4DI/4DO relay	6ED1 055-1MB00-0BA2
LOGO! DM8 24R, 4DI/4DO relay	6ED1 055-1HB00-0BA2
LOGO! DM8 230R, 4DI/4DO relay	6ED1 055-1FB00-0BA2
LOGO! DM16 24, 8DI/8DO	6ED1 055-1CB10-0BA2
LOGO! DM16 24R, 8DI/8DO relay	6ED1 055-1NB10-0BA2
LOGO! DM16 230R, 8DI/8DO relay	6ED1 055-1FB10-0BA2

Expansion Modules Analog

Description	Part No.
LOGO! AM2, DC 12...24V, 2AE 0...10V oDir 0/4 ... 20 mA	6ED1 055-1MA00-0BA2
LOGO! AM2 RTD, DC 12...24V, 2AE -50...200°C (Pt100/1000)	6ED1 055-1MD00-0BA2
LOGO! AM2 AQ, 2AA DC 0...10V / 0/4...20 mA	6ED1 055-1MM00-0BA2

Communication Modules

Description	Part No.
LOGO! CSM 12/24, 4 port ethernet switch	6GK7 177-1MA20-0AA0
LOGO! CMR 2020	6GK7 142-7BX00-0AX0

Accessories

Description	Part No.
LOGO! TDE Text Display	6ED1 055-4MH08-0BA0
SITOP LOGO! Power 24V / 1.3 power supply	6EP1 333-165B00-0AY0
SITOP LOGO! Power 24V / 2.5 power supply	6EP1 333-265B00-0AY0
SITOP LOGO! Power 24V / 4 power supply	6EP1 333-365B00-0AY0
SITOP LOGO! Power 12V / 1.9 power supply	6EP1 332-165B00-0AY0
SITOP LOGO! Power 12V / 4.5 power supply	6EP1 332-265B00-0AY0

Software

Description	Part No.
LOGO! Soft Comfort V8 Single Licence	6ED1 058-0BA08-0YA1

LOGO! Starter Kits

Description	Part No.
LOGO! Starter Kit incl. LOGO! 12/24RCE + LOGO! Power 24V 1.3	6ED1 057-3BA01-0AA8
LOGO! Starter Kit incl. LOGO! 230RCE	6ED1 057-3BA03-3AA8
LOGO! TDE Starter Kit incl. LOGO! 12/24RCEo + LOGO! TDE + LOGO! Power 24V 1.3	6ED1 057-3BA11-0AA8

SIEMENS





Modicon M221 Logic Controllers

M221 Logic Controllers⁽¹⁾

Number of I/O	Inputs		Outputs		Integrated Communication Ports ⁽²⁾		Part No.
	Logic	Analogue	Relay	Transistor	Ethernet	Serial	
Supply - 100...240V AC							
16	9	2	7	-	-	1	TM221C16R
					1	1	TM221CE16R
24	14	2	10	-	-	1	TM221C24R
					1	1	TM221CE24R
40	24	2	16	-	-	1	TM221C40R
					1	1	TM221CE40R
Supply ... 24V DC							
16	9	2	-	7	-	1	TM221C16T
					1	1	TM221CE16T
24	14	2	-	10	-	1	TM221C24T
					1	1	TM221CE24T
40	24	2	-	16	-	1	TM221C40T
					1	1	TM221CE40T
16	9	2	-	7	-	1	TM221C16U
					1	1	TM221CE16U
24	14	2	-	10	-	1	TM221C24U
					1	1	TM221CE24U
40	24	2	-	16	-	1	TM221C40U
					1	1	TM221CE40U

Options for Modicon TM221 logic controllers⁽³⁾

Description	Application	Part No.
I/O cartridges	2 analog inputs (12-bit resolution) configurable as: 0...10V voltage 0...20mA4 ... 20mA current Screw terminal version	TMC2AI2
	2 analog outputs (12-bit resolution) 0...10V voltage Screw terminal version	TMC2AQ2V
	2 analog outputs (12-bit resolution) 4...20mA current Screw terminal version	TMC2AQ2C
	2 temperature inputs (12-bit resolution) type K, J, R, S, B, E, T, N, C, PT100, PT1000, NI100, NI1000 Screw terminal version	TMC2TI2
Communication cartridge	1 additional serial link on screw terminal block	TMC2SL1 ⁽⁴⁾
Cartridges for specific application	Hoisting application	TMC2HOIS01
	Packaging application	TMC2PACK01
	Conveyor system application	TMC2CONV01 ⁽⁴⁾

(1) M221 controllers are supplied with:

- removable screw terminal blocks for connecting the I/O
- a removable screw terminal block for connecting the power supply
- a button cell backup battery (BR2032)
- a cable for connecting the analog inputs

(2) Each M221 logic controller has an embedded USB mini-B programming port.

(3) One cartridge for controllers with 16 and 24 I/O. Two cartridges maximum for controllers with 40 I/O, only one of which can be a communication cartridge.

(4) Just one cartridge per controller.

M221 Book Logic Controllers⁽¹⁾

Number of Logic I/O	Inputs		Outputs		Embedded Communication Ports ⁽²⁾			Terminal block (mm/in.)	Part No.
	Logic	Analogue	Relay	Transistor	Ethernet	Serial			
						SL1	SL2		
Supply - 24V AC									
16	8	2	8	-	-	1	1	Screw (3.81/0.15)	TM221M16R
16	8	2	8	-	-	1	1	Spring (3.81/0.15)	TM221M16RG
16	8	2	8	-	1	1	-	Screw (3.81/0.15)	TM221ME16R
16	8	2	8	-	1	1	-	Spring (3.81/0.15)	TM221ME16RG
16	8	2	-	8	-	1	1	Screw (3.81/0.15)	TM221M16T
16	8	2	-	8	-	1	1	Spring (3.81/0.15)	TM221M16TG
16	8	2	-	8	1	1	-	Screw (3.81/0.15)	TM221ME16T
16	8	2	-	8	1	1	-	Spring (3.81/0.15)	TM221 ME16TG
32	16	16	-	16	-	1	1	HE 10 connector	TM221M32TK
					1	1	-		TM221ME32TK

(1) M221 Book controllers are supplied with:

- removable terminal blocks (screw or spring-type depending on controller model) for connecting the I/O
- a removable screw terminal block for connecting the power supply
- a button cell backup battery (BR2032)
- a cable for connecting the analog inputs

(2) Each M221 Book logic controller has an embedded USB mini-B programming port

Modicon M241 Logic Controllers

M241 Logic Controllers⁽¹⁾

Number of Logic I/O	Logic Inputs	Logic Outputs	Integrated Communication Ports ⁽²⁾			Part No.	
			Ethernet	CANopen master (screw terminal block)	Serial (RJ45 & screw terminal block)		
Supply - 100...240V AC							
24 inputs/ outputs	14 sink/source 24V inputs, inc. 8 high-speed inputs	10 outputs: with 4 source transistor high-speed outputs & 6 relay outputs	-	-	1+1	TM241C24R	
			1	-	1+1	TM241CE24R	
			1	1	1+1	TM241CEC24R	
40 inputs/ outputs	24 x 24V inputs, inc. 8 high-speed inputs	16 outputs: with 4 source transistor high-speed outputs & 12 relay outputs	-	-	1+1	TM241C40R	
			-	-	1+1	TM241CE40R	
			-	-	1+1	TM241CE40R	
Supply ... 24V DC							
24 inputs/ outputs	14 sink/source 24V inputs, inc. 8 high-speed inputs	10 source transistor outputs inc. 4 high-speed outputs	-	-	1+1	TM241C24T	
			1	-	1+1	TM241CE24T	
			1	1	1+1	TM241CEC24T	
	40 inputs/ outputs	24 sink/source 24V inputs, inc. 8 high-speed inputs	16 source transistor outputs inc. 4 high-speed outputs	-	-	1+1	TM241C40T
				1	-	1+1	TM241CE40T
				1	1	1+1	TM241CEC40T
-	-	1+1	TM241C40U				
-	-	1+1	TM241CE40U				
1	-	1+1	TM241CE40U				

Options for Modicon TM241 Logic Controllers

Description	Application	Part No.
I/O cartridges	2 analog inputs (12-bit resolution) configurable as: 0... 10V voltage 0...20mA4 ... 20mA current Connected on screw terminal block	TMC4AI2
	2 analog inputs (16-bit resolution) configurable as: 0... 10V voltage 0...20mA4 ... 20mA current Connected on screw terminal block	TMC4AQ2
	2 inputs (14-bit resolution) configurable for temperature probes: Thermocouple/PT1 00/PT1000/Ni100/Ni 1000 Connected on screw terminal block	TMC4TI2
Cartridges for specific application ⁽³⁾	Hoisting application: 2 analog inputs for a load cell Connected on screw terminal block	TMC4HOIS01
	Packaging application: 2 analog inputs Connected on screw terminal block	TMC4PACK01
SD memory card	Application backup and program transfer Capacity: 256MB	TMASD1

(1) Modular M241 controllers are supplied with:

- Removable terminal blocks (screw terminals) for connecting the /JO with thread of 3.81 mm/0.15 in ..
- A removable terminal block for connecting the power supply with thread of 5.08 mm/0.2 in ..
- A button cell backup battery (BR2032).

(2) Each M241 logic controller has an embedded USB mini-8 programming port.

(3) Use only one Application cartridge (inserted into the left slot of the Modicon M241 controllers).

Communication Modules

Description	Details	Part No.
Communication modules	Multi-port Ethernet interface equipped with four RJ 45 connectors (10/100 Mbps, MDI/ MDIX)	TM4ES4⁽¹⁾
	Slave connection on the Profibus DP bus, equipped with a 9-way SUB-D connector	TM4PDPS1

(1) Can be used as an Ethernet port or as a standalone switch according to controller model and configuration.

Schneider
Electric





Expansion Modules

Modicon TM3 digital I/O modules for M221 & M241 PLCs

Modicon TM3 Digital Input Modules

Number of Logic Inputs	Input Type	Terminal Block for input conn. ⁽¹⁾ Thread (mm/in)	Part No.
8 inputs	Sink/source 24V	Screw (5.08/0.2)	TM3DI8
		Spring (5.08/0.2)	TM3DI8G
8 inputs	120V	Screw (5.08/0.2)	TM3DI8A
		Screw (3.81/0.2)	TM3DI16
16 inputs	Sink/source 24V	Spring (3.81/0.2)	TM3DI16G
		HE 10 connector	TM3DI16K ⁽²⁾
32 inputs	Sink/source 24V	HE 10 connector	TM3DI32K ⁽²⁾

Modicon TM3 Digital Output Modules

Number of Logic Outputs	Output Type	Output Current	Terminal Block for input conn. ⁽¹⁾ Thread (mm/in)	Part No.
8 outputs	Relay	2A	Screw (5.08/0.2)	TM3DQ8R
			Spring (5.08/0.2)	TM3DQ8RG
8 outputs	Transistor, source	0.5A	Screw (5.08/0.2)	TM3DQ8T
			Spring (5.08/0.2)	TM3DQ8TG
8 outputs	Transistor, sink	0.5A	Screw (5.08/0.2)	TM3DQ8U
			Spring (5.08/0.2)	TM3DQ8UG
16 outputs	Relay	2A	Screw (3.81/0.15)	TM3DQ16R
			Spring (3.81/0.15)	TM3DQ16RG
16 outputs	Transistor, source	0.5A	Screw (3.81/0.15)	TM3DQ16T
			Spring (3.81/0.15)	TM3DQ16TG
16 outputs	Transistor, source	0.1A	HE 10 connector	TM3DQ16TK ⁽²⁾
			Screw (3.81/0.15)	TM3DQ16U
16 outputs	Transistor, sink	0.5A	Screw (3.81/0.15)	TM3DQ16UG
			HE 10 connector	TM3DQ16UK ⁽²⁾
32 outputs	Transistor, source	0.1A	HE 10 connector	TM3DQ32TK ⁽²⁾
			HE 10 connector	TM3DQ32UK ⁽²⁾

Modicon TM3 Digital Mixed I/O Modules

Number of Logic Outputs	Number & type of Inputs	Number & type of outputs	Terminal Block for input conn. ⁽¹⁾ Thread (mm/in)	Part No.
8 inputs/outputs	4 sink/source 24V inputs	4 relay outputs 2A	Screw (5.08/0.2)	TM3DM8R
			Spring (5.08/0.2)	TM3DM8RG
24 inputs/outputs	16 sink/source 24V inputs	8 relay outputs 2A	Screw (3.81/0.15)	TM3DM24R
			Spring (3.81/0.15)	TM3DM24RG

Separate Parts

Description	Details	Part No.
Mounting kit	For plate or panel mounting of digital I/O modules (Pack of 10)	TMAM2
Set of terminal blocks for connecting the I/O	4 x 10-way & 4 x 11-way removable terminal blocks with screw terminals for TM3D116, TM3DQ16R, TM3DQ16T, TM3DQ16U modules	TMAT2MSET
	4 x 10-way & 4 x 11-way removable terminal blocks with spring terminals for TM3D116G, TM3DQ16RG, TM3DQ16TG, TM3DQ16UG modules	TMAT2MSETG

(1) Removable screw or spring type terminal blocks supplied

(2) Modules compatible with the Telefast Modicon ABE7 pre-wired system

Expansion Modules

Modicon TM3 analog I/O modules for M221 & M241 PLCs

Modicon TM3 Analog Input Modules

Number & Type of Channels	Input range	Output Range	Resolution	Conn. block for the inputs ⁽¹⁾ Pitch (mm/in)	Part No.
2 voltage/current inputs	-10...+10V DC, 0...+10V DC/ 0...20mA, 4...20mA	-	16 bits or 15 bits + sign	Screw (5.08/0.2)	TM3AI2H
				Spring (5.08/0.2)	TM3AI2HG
4 voltage/current inputs	-10...+10V DC, 0...+10V DC/ 0...20mA, 4...20mA	-	12 bits or 11 bits + sign	Screw (3.81/0.15)	TM3AI4
				Spring (3.81/0.15)	TM3AI4G
4 voltage/current or temperature inputs ⁽²⁾	Thermocouples (J,K,R,S,B,T,N,E,C) Temperature probes (RTDs) (Ni100, Ni1000, PT100, PT1000) -10...+ 10V DC, 0...+10V DC / 0...20mA, 4...20mA	-	16 bits or 15 bits + sign	Screw (3.81/0.15)	TM3TI4
				Spring (3.81/0.15)	TM3TI4G
8 voltage/current inputs	-10...+ 10V DC, 0...+10V DC / 0...20mA, 4...20mA	-	12 bits or 11 bits + sign	Screw (3.81/0.15)	TM3AI8
				Spring (3.81/0.15)	TM3AI8G
8 temperature inputs	Thermocouples (J,K,R,S,B,T,N,E,C) NTC & PTC thermistors	-	16 bits or 15 bits + sign	Screw (3.81/0.15)	TM3TI8T
				Spring (3.81/0.15)	TM3TI8TG



Modicon TM3 Analog Output Modules

Number & Type of Channels	Input Range	Output range	Resolution	Conn. block for the inputs ⁽¹⁾ Pitch (mm/in)	Part No.
2 voltage/current outputs	-	-10...+10V DC, 0...+10V DC/ 0...20mA, 4...20mA	12 bits or 11 bits + sign	Screw (5.08/0.2)	TM3AQ2
				Spring (5.08/0.2)	TM3AQ2G
4 voltage/current outputs	-	-10...+10V DC, 0...+10V DC/ 0...20mA, 4...20mA	12 bits or 11 bits + sign	Screw (5.08/0.2)	TM3AQ4
				Spring (5.08/0.2)	TM3AQ4G



Modicon TM3 Analog Mixed I/O Modules

Number & Type of Channels	Input Range	Output range	Resolution	Conn. block for the inputs ⁽¹⁾ Pitch (mm/in)	Part No.
2 temperature or voltage/current outputs ⁽²⁾ & 1 voltage/current output	Thermocouples (J,K,R,S,B,T,N,E,C) Temperature probes (RTDs) (Ni100, Ni1000, PT100, PT1000) -10...+ 10V DC, 0...+10V DC / 0...20mA, 4...20mA	-10...+ 10V DC, 0...+10V DC / 0...20mA, 4...20mA	16 bits or 15 bits + sign (for I) 12 bits or 11 bits+ sign (for O)	Screw (5.08/0.2)	TM3TM3
				Spring (5.08/0.2)	TM3TM3G
4 voltage/current inputs & 2 voltage/current outputs	-10...+ 10V DC, 0...+10V DC / 0...20mA, 4...20mA	-10...+10V DC, 0...+10V DC / 0...20mA, 4...20mA	12 bits or 11 bits+ sign (for I & O)	Spring (3.81/0.15)	TM3AM6
				Screw (3.81/0.15)	TM3AM6G



Separate Parts

Description	Details	Part No.
Grounding plate	Support equipped with 10 male Faston connectors for connecting the cable shielding (via 6.35 connectors, not supplied) & the functional grounds (FE)	TM2XMTGB
Shielding connection clamps	Assembly and earthing of the cable shielding. Pack of 25 clamps including 20 for Ø 4.8 (0.189in.) cable & 5 for Ø 7.9 (0.311in.) cable	TM200RSRC EMC
Mounting kit	For mounting the analog I/O modules on a plate or panel (Pack of 10)	TMAM2
Set of I/O terminal blocks	4 terminal blocks with 10 pins and 4 terminal blocks with 11 removable screw terminal pins for TM3AI4, TM3TI4, TM3AI 8, TM3TI 8, TM3AM6 modules	TMAT2MSET
	4 terminal blocks with 10 pins and 4 terminal blocks with 11 removable spring terminal pins for TM3AI4G, TM3TI4G, TM3AI 8G, TM3TI 8G, TM3AM6G modules	TMAT2MSETG

(1) Removable screw terminal blocks supplied with each module.

(2) Each input can be configured independently for temperature or voltage/current.



FX Family

Mitsubishi Electric micro programmable controllers are expanding the boundaries of traditional micro programmable logic controller applications. From the extremely compact FX3S and FX3G Series to the highly advanced FX3U and FX5U Series, Mitsubishi Electric has a perfectly size control solution to satisfy a wide variety of needs. The diverse line up of FX family PLCs can supply reliable performance in a package to fit your system requirements.

FX3S Entry level, compact PLC

Description	Part No.
FX3S Base Unit AC 100-240V; 6 inputs DC 24V; 4 relay outputs	FX3S-10MR-ES
FX3S Base Unit AC 100-240V; 8 inputs DC 24V; 6 relay outputs	FX3S-14MR-ES
FX3S Base Unit AC 100-240V; 12 inputs DC 24V; 8 relay outputs	FX3S-20MR-ES
FX3S Base Unit AC 100-240V; 16 inputs DC 24V; 14 relay outputs	FX3S-30MR-ES

FX3G Mid-range compact PLC

FX3G Base Unit AC 100-240 V; 8 inputs DC 24V; 6 relay outputs	FX3G-14MR-ES
FX3G Base Unit AC 100-240 V; 14 inputs DC 24V; 10 relay outputs	FX3G-24MR-ES
FX3G Base Unit AC 100-240 V; 24 inputs DC 24V; 16 relay outputs	FX3G-40MR-ES
FX3G Base Unit AC 100-240 V; 36 inputs DC 24V; 24 relay outputs	FX3G-60MR-ES

FX3U High-End compact PLC

Base Unit AC 100-240V; 8 inputs DC 24V; 8 relay outputs	FX3U-16MR-ES
Base Unit AC 100-240V; 16 inputs DC 24V; 16 relay outputs	FX3U-32MR-ES
Base Unit AC 100-240V; 24 inputs DC 24V; 24 relay outputs	FX3U-48MR-ES
Base Unit AC 100-240V; 32 inputs DC 24V; 32 relay outputs	FX3U-64MR-ES

FX5U Advanced IQ F Series PLC

FX5U CPU module AC 100-240V; 16 inputs DC 24V; 16 relay outputs, built-in Ethernet, RS485 and analogue I/O	FX5U-32MR-ES
FX5U CPU module AC 100-240V; 32 inputs DC 24V; 32 relay outputs, built-in Ethernet, RS485 and analogue I/O	FX5U-64MR-ES
FX5U CPU module AC 100-240V; 40 inputs DC 24V; 40 relay outputs, built-in Ethernet, RS485 and analogue I/O	FX5U-80MR-ES

L-Series

The modular MELSEC L series is a powerful but compact modular controller with many features built-in to the CPU itself. The rack-free design promotes high system flexibility. By connecting various types of modules, the system can be enhanced according to the application. Up to 40 expansion modules can be added per system configuration.

MELSEC L series

Description	Part No.
L CPU module; 20k Step Memory; 16 Inputs/8 Outputs (source); Ethernet; Data Logger. Includes end plate	L02CPU-P
L CPU module; 60k Step Memory; 16 Inputs/8 Outputs (source); Ethernet; Data Logger. Includes end plate. 9.5nS per step	L06CPU-P

Q Series Modular series

With the MELSEC System Q, Mitsubishi presents its most powerful and compact modular PLC, with multiprocessor technology for present and future challenges.

The small size, the communication capability and the high - performance, Multiprocessing are three important characteristics of the MELSEC System Q. Depending on the selected CPU type up to 4096 local and up to 8192 remote I/O points can be addressed. This controller is particularly suitable for performing medium-to high performance automation tasks.



Universal PLC CPUs

Description	Part No.
Universal Q CPU module, 10k step memory, 120ns per instruction, single processor type, combined 5 slot base and 110-240V AC power supply	Q00JCPU
Universal Q CPU module, 10k step memory, 80ns per instruction, multi processor capability	Q00UCPU
Universal Q CPU module, 15k step memory, 60ns per instruction, multi processor capability	Q01UCPU
Universal Q CPU module, 20k step memory, 40ns per instruction, multi processor capability	Q02UCPU
Universal Q CPU module, 30k step memory, 20ns per instruction, multi processor capability	Q03UDCPU
Universal Q CPU module, 30k step memory, 20ns per instruction, Ethernet enabled	Q03UDECPU

Main Base Unit

CPU base with 5 I/O slots and 1 power supply slot	Q35B
CPU base with 8 I/O slots and 1 power supply slot	Q38B
CPU base with 12 I/O slots and 1 power supply slot	Q312B

Digital Modules

16 point, 24V DC input (4mA), source type, 16 points/common	QX80
32 point, 24V DC input (4mA), source type, 32 points/common	QX81
16 point relay 240V AC/24V DC, 2A contact, 16 points/common	QY10
16 point transistor, 12-24V DC, 0.5A/point, 4A/common, source type, 16 points/common	QY80
32 point transistor, 12-24V DC, 0.1A/point, 2A/common source type, 32 points/common	QY81P

Analogue Modules

A/D input module, 4 channel, 0 to 16000 -10 to +10V, 0-12000 0 to 20mA	Q64AD
A/D input module, 8 channel, 16 bit, 0 to 16000 -10V to +10V DC	Q68ADV
A/D input module, 8 channel, 16 bit, 0 to 12000 0 to 20mA	Q68ADI

Communication Options

Serial communication module (1 off RS232) and multidrop function (1 off RS485)	QJ71C24N
Serial communication module (2 off RS232 ports)	QJ71C24N-R2
Serial communication module (2 off RS485/422 ports)	QJ71C24N-R4
Serial communication module (2 off RS485/422 ports)	QJ71E71-100

Positioning Modules

Single axis SSCNET III position control module (Qn)	QD75MH1
Two axis SSCNET III position control module (Qn)	QD75MH2
Four axis SSCNET III position control module (Qn)	QD75MH4



HMI Controllers

Improve your productivity with Magelis HM Is from entry-level to large rack PC. And with EcoStruxure™ Operator Terminal Expert (formerly known as Vijeo X0) configuration software you can enable your operators for maximum efficiency and user-friendly features.

Magelis HMISTO

Description	Part No.
Touch Panel Screen 3.4" Monochrome Green/Orange/Red	HMIST0511
Touch Panel Screen 3.4" Monochrome White/Pink/Red	HMIST0512
Touch Panel Screen 3.4" Monochrome Green/Orange/Red with Ethernet	HMIST0531
Touch Panel Screen 3.4" Monochrome Green/Orange/Red for Zelio Logic	HMIST0501

Magelis HMISTU (with 22mm mounting)

Touch Panel Screen 3.5" Colour, Ø 22mm mounting	HMISTU655
Touch Panel Screen 5.7" Colour, Ø 22mm mounting	HMISTU855
HMISTU 3.5" Front Module, No logo (spare)	HMIS65W
HMISTU 5.7" Front Module, No logo (spare)	HMIS85W
HMISTU Rear Module (spare)	HMIS5T

Magelis HMISTO/STU, Cable & Accessories

Power supply connector for HMISTO series	HMIZSPW0
USB type A cable clamp for HMISTO series	HMIZSCLP1
USB type B cable clamp for HMISTO series	HMIZSCLP3
USB type B extension cable	HMIZSUSBB
Gasket for HMISTO series	HMIZS50
Screen protection sheets for HMISTO series	HMIZS60
Screen protection sheets for HMISTU 3.5" series	HMIZS61
Screen protection sheets for HMISTU 5.7" series	HMIZS62
Link cable between-Zelio Logic and HMIST0501	SR2CBL09

HMIGTO - Advanced Panels, Optimised Range

3.5" Colour TFT LCD, 320x240 QVGA, 6 function keys, 64MB Flash memory, full graphical display, built in real-time clock, 2x Serial port, 2x USB port, IP65	HMIGT01300
3.5" Colour TFT LCD, 320x240 QVGA, 6 function keys, 96 Flash memory, full graphical display, built in real-time clock, 1x Serial port, 2x USB port, 1x Ethernet port, IP65	HMIGT01310
5.7" Colour TFT LCD, 320x240 QVGA, 64MB Flash memory, full graphical display, built in real-time clock, 2x Serial port, 2x USB port, IP65	HMIGT02300
5.7" Colour TFT LCD, 320x240 QVGA, SD card slot, 96MB Flash memory, full graphical display, built in real-time clock, 1x Serial port, 2x USB port, 1x Ethernet port, IP65	HMIGT02310
7.0" Wide Colour TFT LCD, 800x480 WVGA, 8 function keys, SD card slot, 96MB Flash memory, full graphical display, built in real-time clock, 2x Serial port, 2x USB port, 1x Ethernet port, IP65	HMIGT03510
7.5" Colour TFT LCD, 640x480 VGA, 96MB Flash memory, SD card slot, full graphical display, built in real-time clock, 2x Serial port, 2x USB port, 1x Ethernet port, IP65	HMIGT04310
10.4" Colour TFT LCD, 640x480 VGA, 96MB Flash memory, SD card slot, full graphical display, built in real-time clock, 2x Serial port, 2x USB port, 1x Ethernet port, IP65	HMIGT05310
12.1" Colour TFT LCD, 800x600 SVGA, 96MB Flash memory, SD card slot, full graphical display, built in real-time clock, 2x Serial port, 2x USB port, 1x Ethernet port, IP65	HMIGT06310

GOT Simple series

Mitsubishi's entry level HMI model of the GOT range. The GOT Simple offers simple, but powerful models with high reliability for easy operation.

GOT Simple series	
Description	Part No.
7" WVGA TFT, 65K colour Graphic Operator terminal, 800x480 pixel touch screen, with Ethernet, RS232 & RS422/485, USB (device) connections, plus SD memory card slot.	GS2107-WTBD
10.4" WVGA TFT, 65K colour Graphic Operator Terminal, 800x480 pixel touch screen, with Ethernet, RS232 & RS422/485, USB (host and device) connections, plus SD memory card slot.	GS2110-WTBD

GOT 2000 series

Mitsubishi Electric has raised the bar for the HMIs with the GOT2000 series, designed to optimise operator control and monitoring of device and line status. With vastly increased performance, advanced functions, seamless connectivity to other automation devices, the GOT2000 series provided a range of models and sizes to meet the need of the broadest spread of applications.

GOT2000 at a glance

Display:	TFT monochrome to TFT with 65536 colours
Resolution:	From 320x128 up to 1024x768
Screen sizes:	From 3.8" to 15"
Network capability:	Ethernet (TCP/IP), CC-Link (IE), MELSECNET/10/H
Interface:	RS232, RS422, RS485, USB

Basic Range	
Description	Part No.
8.4" VGA TFT, 65K colour Graphic Operator terminal, 640x480 pixel touch screen, with Ethernet, RS232 & RS422/485, USB (host & device) connections, plus SD memory card slot.	GT2308-VTBD
10.4" VGA TFT, 65K colour Graphic Operator Terminal, 640x480 pixel touch screen, with Ethernet, RS232 & RS422/485, USB (host & device) connections, plus SD memory card slot.	GT2310-VTBD

Mid Range	
8.4" SVGA TFT, 65K colour Graphic Operator Terminal, 640x480 pixel touch screen, with Ethernet, RS232 & RS422/485, front & rear USB (host & device) connections, plus SD memory card slot.	GT2508-VTBD
10.4" VGA TFT, 65K colour Graphic Operator Terminal, 640x480 pixel touch screen, with Ethernet, RS232 & RS422/485, front & rear USB (host & device) connections, plus SD memory card slot.	GT2510-VTBD

Advance Range	
8.4" VGA TFT, 65K colour Graphic Operator Terminal, 640x480 pixel touch screen, with Ethernet, RS232 & RS422/485, front & rear USB (host & device) connections, plus SD memory card slot.	GT2708-VTBD
10.4" VGA TFT, 65K colour Graphic Operator Terminal, 640x480 pixel touch screen, with Ethernet, RS232 & RS422/485, front & rear USB (host & device) connections, plus SD memory card slot.	GT2710-VTBD





ACS150 Series Micro Drive

ACS150

Ratings		IP Rating	Frame Size	Part No.
kW	Amps			
1-Phase Supply Voltage 200-240V Unit				
0.37	2.4	20	R0	ACS150-01E-02A4-2
0.75	4.7	20	R1	ACS150-01E-04A7-2
1.1	6.7	20	R1	ACS150-01E-06A7-2
1.5	7.5	20	R2	ACS150-01E-07A5-2
2.2	9.8	20	R2	ACS150-01E-09A8-2
3-Phase Supply Voltage 380-480V Unit				
0.37	1.2	20	R0	ACS150-03E-01A2-4
0.55	1.9	20	R0	ACS150-03E-01A9-4
0.75	2.4	20	R1	ACS150-03E-02A4-4
1.1	3.3	20	R1	ACS150-03E-03A3-4
1.5	4.1	20	R1	ACS150-03E-04A1-4
2.2	5.6	20	R1	ACS150-03E-05A6-4
3	7.3	20	R1	ACS150-03E-07A3-4
4	8.8	20	R1	ACS150-03E-08A8-4

ACS355 Series

Power and voltage range

- 1-phase, 200 to 240V ± 10% 0.37 to 2.2kW (0.5 to 3hp)
- 3-phase, 380 to 480V ± 10% 0.37 to 22kW (0.5 to 30hp)

Options

- Auxiliary I/O modules
 - MTAC pulse encoder interface
 - MREL module for additional relays
 - MPOW for external auxiliary power supply
- Fieldbus connection via optional modules
 - PROFIBUS DP
 - CANopen
 - DeviceNet
 - Modbus
 - Ethernet
 - Profinet
 - EtherCat
 - LonWorks
- FlashDrop tool for fast preconfiguration without powering the drive
- DriveWindow Light PC tool for easy parameter setting and graphical sequence programming
- External EMC filters for category C2 compatibility
- Input chokes for IEC 61000-3-12 compatibility
- IP66 on request

Mains connection

Voltage and power connection

- 1-phase, 200 to 240V ± 10%: 0.37 to 2.2kW (0.5 to 3hp)
- 3-phase, 380 to 480V ± 10%: 0.37 to 22kW (0.5 to 10hp)

Frequency 48 to 63Hz

Motor connection

- Voltage 3-phase, from 0 to U_{SUPPLY}
- Frequency 0 to 600Hz
- Overload capacity 1.5 x I_{2N} for 1min. every 10 minutes at start 1.8 x I_{2N} for 2 seconds
- Switching frequency 4 (default) to 16 kHz with 4 kHz steps. Parameter-enabled noise cancellation function

Environmental limits

- Ambient temperature -10 to 40°C (14 to 104°F), no frost allowed 50°C (122°F) with 10% derating
- Relative humidity Lower than 95% (without condensation)



ACS355

Ratings		IP Rating	Frame Size	Part No.
kW	Amps			
1-Phase Supply Voltage 200-240V Unit				
0.37	2.4	20	R0	ACS355-01E-02A4-2
0.75	4.7	20	R1	ACS355-01E-04A7-2
1.1	6.7	20	R1	ACS355-01E-06A7-2
1.5	7.5	20	R2	ACS355-01E-07A5-2
2.2	9.8	20	R2	ACS355-01E-09A8-2
3-Phase Supply Voltage 380-480V Unit				
0.37	1.2	20	R1	ACS355-03E-01A2-4
0.55	1.9	20	R1	ACS355-03E-01A9-4
0.75	2.4	20	R1	ACS355-03E-02A4-4
1.1	3.3	20	R1	ACS355-03E-03A3-4
1.5	4.1	20	R1	ACS355-03E-04A1-4
2.2	5.6	20	R1	ACS355-03E-05A6-4
3.0	7.3	20	R1	ACS355-03E-07A3-4
4.0	8.8	20	R1	ACS355-03E-08A8-4
5.5	12.5	20	R3	ACS355-03E-12A5-4
7.5	15.6	20	R3	ACS355-03E-15A6-4
11	23.1	20	R3	ACS355-03E-23A1-4
15	31	20	R4	ACS355-03E-31A0-4
18.5	38	20	R4	ACS355-03E-38A0-4
22	44	20	R4	ACS355-03E-44A0-4

Control Panel

Description	Part No.
Assistant control panel	ACS-CP-A
Basic keypad	ACS-CP-C

ACS580-1 Series

- 0.55kW to 250kW, (380 - 480V)
- Largest power for wall-mount drive on market
- Coated boards as standard
- Variable-speed cooling fans
- TOV approved safe torque-off (STO) to SIL 3 PL e standard
- IP21 as standard, IP55 as option
- IP55 variant similar footprint to IP21 variant
- Brake chopper standard to R3 frame, option thereafter
- Optional UK cable box for SWA cables
- EMC filter for C3 category according to EN 61800-3 (2004) standard
- Internal fieldbus options
- Optional relay expansion, PTC and 115V/240V Di's

Wall Mounted Units

No-overload Normal Use		Frame Size	Part No.
P _N kW	I _N Amps		
3-Phase Supply Voltage 380-480V (Ratings shown are for 415V)			
0.75	2.6	R0	ACS580-01-02A6-4*
1.1	3.3	R0	ACS580-01-03A3-4*
1.5	4	R0	ACS580-01-04A0-4*
2.2	5.6	R0	ACS580-01-05A6-4*
3	7.2	R1	ACS580-01-07A2-4*
4	9.4	R1	ACS580-01-09A4-4*
5.5	12.6	R1	ACS580-01-12A6-4*
7.5	17	R2	ACS580-01-017A-4*
11	25	R2	ACS580-01-025A-4*
15	32	R3	ACS580-01-032A-4*
18.5	38	R3	ACS580-01-038A-4*
22	45	R3	ACS580-01-045A-4*
30	62	R4	ACS580-01-062A-4*
37	73	R4	ACS580-01-073A-4*
45	88	R5	ACS580-01-088A-4*
55	106	R5	ACS580-01-106A-4*
75	145	R6	ACS580-01-145A-4*
90	189	R7	ACS580-01-169A-4*
110	206	R7	ACS580-01-206A-4*
132	246	R8	ACS580-01-246A-4*
160	293	R8	ACS580-01-293A-4*
200	363	R9	ACS580-01-363A-4*
250	430	R9	ACS580-01-430A-4*

*+ B056 for IP55 version



VLT Series

FC302 with Graphic Display Class 1A/1B Filter - 3 x 380-500V

kW	Ratings		IP Rating	Part No.
	kW	Amps		
0.37	1.3	20	20	131B0033
			55	131B1973
0.55	1.8	20	20	131B0034
			55	131B1974
0.75	2.4	20	20	131B0035
			55	131B1975
1.1	3	20	20	131B0036
			55	131B1976
1.5	4.1	20	20	131B0037
			55	131B1977
2.2	5.6	20	20	131B0038
			55	131B1978
3.0	7.2	20	20	131B0039
			55	131B1979
4.0	10	20	20	131B0040
			55	131B1980
5.5	13	20	20	131B0041
			55	131B1546
7.5	16	20	20	131B0042
			55	131B1547
11	24	20	20	131B1152
			55	131B1168
15	32	20	20	131B1155
			55	131B1167
18.5	37.5	20	20	131B1156
			55	131B1854
22	44	20	20	131B1864
			55	131B1874
30	61	20	20	131B4574
			55	131B4575
37	73	20	20	131B4575
			55	131B4577





SINAMICS V20

Fieldbus: USS/Modbus RTU, Line voltage: 380V ... 480V, ± 10%, 3-phase AC, with 150% overload for 60sec., I/O-interface: 4DI, 2DO, 2AI, 1AO, with inbuilt BOP, protection: IP20/ UL open type.

3AC Inverter with Integrated Line Filter Category C3 - 3 x 380-480V

Rated Power ⁽¹⁾		Rated output current I _{rated}	Frame Size	Dimensions	Part No.
kW	hp	A	FS	(HxWxDmm)	
0.37	0.5	1.3	FSA without fan	150 x 90 x 145.5	6SL3210-5BE13-7CV0
0.55	0.75	1.7			6SL3210-5BE15-5CV0
0.75		2.2			6SL3210-5BE17-5CV0
1.1	1.5	3.1	FSA with one fan	166 x 90 x 145.5	6SL3210-5BE21-1CV0
1.5	2.0	4.1			6SL3210-5BE21-5CV0
2.2	3.0	5.6			6SL3210-5BE22-2CV0
3.0	4.0	7.3	FSB with one fan	160 x 140 x 164.5	6SL3210-5BE23-0CV0
4.0	5.0	8.8			6SL3210-5BE24-0CV0
5.5	7.5	12.5	FSC with one fan	182 x 184 x 169	6SL3210-5BE25-5CV0
7.5	10	16.5			6SL3210-5BE27-5CV0
11.0	15	25	FSD with two fans	206.5 x 240 x 172.5	6SL3210-5BE31-1CV0
15.0	20	31			6SL3210-5BE31-5CV0
22.0	30.0	45 (40)			6SL3210-5BE31-8CV0
30.0	40.0	60 (52)			6SL3210-5BE32-2CV0
				264.5 x 243.5 x 209	

SINAMICS G120C

A variable speed drive specifically designed for OEMs who require a cost effective, space saving, design that is simple to operate and has a broad range of functions. Including safe torque off.

Applications

Conveyors, pumps, fans, compressors, mixers & extruders

Technical Data

Line voltages:	380 to 480V +10%, -20%
Digital inputs (DI):	6
Digital outputs (DO):	2
Analogue inputs (AI):	1 (selectable between -10 ... +10V, 0/4 ... 20mA)
Analogue outputs (AO):	1
Failsafe inputs (F-01):	1 (selectable between -10 ... +10V, 0/4 ... 20mA)
Communication interface:	RS485/USS/Modbus RTU: PROFIBUS OP: PROFINET: CANopen



Filtered* Power Modules - 3 x 380V... 480V AC

Rated Power		Frame Size	Communication Interface	Part No.
HO (VT)	H (CT)			
0.55kW / 1.7A	0.37kW / 1.3A	A	USS/MOO Bus RTU	6SL3210-1KE11-8AB1
			Profinet	6SL3210-1KE11-8AF1
0.75kW / 2.2A	0.55kW / 1.7A	A	USS/MOO Bus RTU	6SL3210-1KE12-3AB1
			Profinet	6SL3210-1KE12-3AF1
1.1kW / 3.1A	0.75kW / 2.2A	A	USS/MOO Bus RTU	6SL3210-1KE13-2AB1
			Profinet	6SL3210-1KE13-2AF1
1.5kW / 4.1A	1.1kW / 3.1A	A	USS/MOO Bus RTU	6SL3210-1KE14-3AB1
			Profinet	6SL3210-1KE14-3AF1
2.2kW / 5.6A	1.5kW / 4.1A	A	USS/MOO Bus RTU	6SL3210-1KE15-8AB1
			Profinet	6SL3210-1KE15-8AF1
3.0kW / 7.3A	2.2kW / 5.6A	A	USS/MOO Bus RTU	6SL3210-1KE17-5AB1
			Profinet	6SL3210-1KE17-5AF1
4.0kW / 8.8A	3.0kW / 7.3A	A	USS/MOO Bus RTU	6SL3210-1KE18-8AB1
			Profinet	6SL3210-1KE18-8AF1
5.5kW / 12.5A	4.0kW / 8.8A	B	USS/MOO Bus RTU	6SL3210-1KE21-3AB1
			Profinet	6SL3210-1KE21-3AF1
7.5kW / 16.5A	5.5kW / 12.5A	B	USS/MOO Bus RTU	6SL3210-1KE21-7AB1
			Profinet	6SL3210-1KE21-7AF1
11kW / 25A	7.5kW / 16.5A	C	USS/MOO Bus RTU	6SL3210-1KE22-6AB1
			Profinet	6SL3210-1KE22-6AF1
15kW / 31A	11kW / 25A	C	USS/MOO Bus RTU	6SL3210-1KE23-2AB1
			Profinet	6SL3210-1KE23-2AF1
18.5kW / 37A	15kW / 31A	C	USS/MOO Bus RTU	6SL3210-1KE23-8AB1
			Profinet	6SL3210-1KE23-8AF1

* EMC filtering suitable for 1st environment

OPTIONS

Description	Part No.
Basic Operator Panel 2 (BOP-2)	6SL3255-0AA00-4CA1
Intelligent Operator Panel 2 (IOP)	6SL3255-0AA00-4JA1
IOP/BOP-2 Door Mounting Kit	6SL3256-0AA00-0JA0

Altivar Simple Machine ATV320

IP21

A variable speed drive with Integrated EMC Filter designed for Original Equipment Manufacturers (OEMs) that meets simple and advanced application requirements for 3 phase synchronous and asynchronous motors from 0.18 to 15kW (0.25 to 20Hp).



Compact Variable Speed Drive - 200-240V AC Single Phase

Power (kW)	Description	Part No.
0.18	ATV320 0.18kW 200V 1PH Compact VSD	ATV320U02M2C
0.37	ATV320 0.37kW 200V 1PH Compact VSD	ATV320U04M2C
0.55	ATV320 0.55kW 200V 1PH Compact VSD	ATV320U06M2C
0.75	ATV320 0.75kW 200V 1PH Compact VSD	ATV320U07M2C
1.10	ATV320 1.1kW 200V 1PH Compact VSD	ATV320U11M2C
1.50	ATV320 1.5kW 200V 1PH Compact VSD	ATV320U15M2C
2.20	ATV320 2.2kW 200V 1PH Compact VSD	ATV320U22M2C

Compact Variable Speed Drive - 400-480V AC

Power (kW)	Description	Part No.
0.37	ATV320 0.37kW 400V 3PH Compact VSD	ATV320U04N4C
0.55	ATV320 0.55kW 400V 3PH Compact VSD	ATV320U06N4C
0.75	ATV320 0.75kW 400V 3PH Compact VSD	ATV320U07N4C
1.10	ATV320 1.1kW 400V 3PH Compact VSD	ATV320U11N4C
1.50	ATV320 1.5kW 400V 3PH Compact VSD	ATV320U15N4C
2.20	ATV320 2.2kW 400V 3PH Compact VSD	ATV320U22N4C
3.00	ATV320 3kW 400V 3PH Compact VSD	ATV320U30N4C
4.00	ATV320 4kW 400V 3PH Compact VSD	ATV320U40N4C

Book Variable Speed Drive - 200-240V AC Single Phase

Power (kW)	Description	Part No.
0.18	ATV320 0.18kW 200V 1PH Book VSD	ATV320U02M2B
0.37	ATV320 0.37kW 200V 1PH Book VSD	ATV320U04M2B
0.55	ATV320 0.55kW 200V 1PH Book VSD	ATV320U06M2B
0.75	ATV320 0.75kW 200V 1PH Book VSD	ATV320U07M2B
1.10	ATV320 1.1kW 200V 1PH Book VSD	ATV320U11M2B
1.50	ATV320 1.5kW 200V 1PH Book VSD	ATV320U15M2B
2.20	ATV320 2.2kW 200V 1PH Book VSD	ATV320U22M2B

Book Variable Speed Drive - 400-480V AC

Power (kW)	Description	Part No.
0.37	ATV320 0.37kW 400V 3PH Book VSD	ATV320U04N4B
0.55	ATV320 0.55kW 400V 3PH Book VSD	ATV320U06N4B
0.75	ATV320 0.75kW 400V 3PH Book VSD	ATV320U07N4B
1.10	ATV320 1.1kW 400V 3PH Book VSD	ATV320U11N4B
1.50	ATV320 1.5kW 400V 3PH Book VSD	ATV320U15N4B
2.20	ATV320 2.2kW 400V 3PH Book VSD	ATV320U22N4B
3.00	ATV320 3kW 400V 3PH Book VSD	ATV320U30N4B
4.00	ATV320 4kW 400V 3PH Book VSD	ATV320U40N4B
5.50	ATV320 5.5kW 400V 3PH Book VSD	ATV320U55N4B
7.50	ATV320 7.5kW 400V 3PH Book VSD	ATV320U75N4B
11	ATV320 11kW 400V 3PH Book VSD	ATV320D11N4B
15	ATV320 15kW 400V 3PH Book VSD	ATV320D15N4B



Altivar High Performance Machine ATV340

IP21

A variable speed drive designed for Original Equipment Manufacturers (OEMs) that engineer high performance applications for 3 phase motors with or without sensor from 0.75 to 75kW (1 to 100Hp).

Variable Speed Drive - 400-480V AC

Power (kW)	Description	Part No.
0.75	ATV340 VSD IP21 0.75kW 400V/480V	ATV340U07N4
1.50	ATV340 VSD IP21 1.5kW 400V/480V	ATV340U15N4
2.20	ATV340 VSD IP21 2.2kW 400V/480V	ATV340U22N4
3.00	ATV340 VSD IP21 3kW 400V/480V	ATV340U30N4
4.00	ATV340 VSD IP21 4kW 400V/480V	ATV340U40N4
5.50	ATV340 VSD IP21 5.5kW 400V/480V	ATV340U55N4
7.50	ATV340 VSD IP21 7.5kW 400V/480V	ATV340U75N4
11	ATV340 VSD IP21 11kW 400V/480V	ATV340D11N4
15	ATV340 VSD IP21 15kW 400V/480V	ATV340D15N4
18.50	ATV340 VSD IP21 18.5kW 400V/480V	ATV340D18N4
22	ATV340 VSD IP21 22kW 400V/480V	ATV340D22N4

Variable Speed Drive - 400-480V AC with Embedded Ethernet

Power (kW)	Description	Part No.
0.75	ATV340 VSD IP21 0.75kW 400V/480V ETHERNET	ATV340U07N4E
1.50	ATV340 VSD IP21 1.5kW 400V/480V ETHERNET	ATV340U15N4E
2.20	ATV340 VSD IP21 2.2kW 400V/480V ETHERNET	ATV340U22N4E
3.00	ATV340 VSD IP21 3kW 400V/480V ETHERNET	ATV340U30N4E
4.00	ATV340 VSD IP21 4kW 400V/480V ETHERNET	ATV340U40N4E
5.50	ATV340 VSD IP21 5.5kW 400V/480V ETHERNET	ATV340U55N4E
7.50	ATV340 VSD IP21 7.5kW 400V/480V ETHERNET	ATV340U75N4E
11	ATV340 VSD IP21 11kW 400V/480V ETHERNET	ATV340D11N4E
15	ATV340 VSD IP21 15kW 400V/480V ETHERNET	ATV340D15N4E
18.50	ATV340 VSD IP21 18.5kW 400V/480V ETHERNET	ATV340D18N4E
22	ATV340 VSD IP21 22kW 400V/480V ETHERNET	ATV340D22N4E
30	ATV340 VSD IP21 30kW 400V/480V ETHERNET	ATV340D30N4E
37	ATV340 VSD IP21 37kW 400V/480V ETHERNET	ATV340D37N4E
45	ATV340 VSD IP21 45kW 400V/480V ETHERNET	ATV340D45N4E
55	ATV340 VSD IP21 55kW 400V/480V ETHERNET	ATV340D55N4E
75	ATV340 VSD IP21 75kW 400V/480V ETHERNET	ATV340D75N4E

⁽¹⁾ Overload capability: 150% rated output current for 60s, cycle time 300s

⁽²⁾ FS = Frame Size as FSA, FSB, FSC and FSD

⁽³⁾ Max. shielded motor cable length for frame size FSA 10m and for frame sizes FSB to FSD 25m To reach category C2 or to achieve 25m shielded motor cable length also with frame size FSA, unfiltered inverters with external line filter have to be used.

⁽⁴⁾ P rated (LO) = Rated Power for low overload

⁽⁵⁾ P rated (HO) = Rated Power for high overload

⁽⁶⁾ For IL 400V, the output current IL is based on the duty cycle for low overload (LO)

⁽⁷⁾ For IL 480V

⁽⁸⁾ For IL 400V, the output current IH is based on the duty cycle for high overload (HO)

⁽⁹⁾ For IH 480V

Contact your local sales office for additional products from this range.

Terms of Business applies, a copy of which is available on request. E30E - Although we strive to keep this document as accurate as possible, we cannot be held responsible for any errors and omissions.



Altivar Process ATV600

Variable speed drive with embedded services dedicated to process industry and utilities for 3 phases synchronous, asynchronous and special motors from 0.75kW to 1.5MW.

Altivar 630 IP21 Process Variable Speed Drive - 400-480V AC

Power (kW)	Description	Part No.
0.75	ATV630 VSD IP21 0.75kW 400V/480V	ATV630U07N4
1.50	ATV630 VSD IP21 1.5kW 400V/480V	ATV630U15N4
2.20	ATV630 VSD IP21 2.2kW 400V/480V	ATV630U22N4
3.00	ATV630 VSD IP21 3kW 400V/480V	ATV630U30N4
4.00	ATV630 VSD IP21 4kW 400V/480V	ATV630U40N4
5.50	ATV630 VSD IP21 5.5kW 400V/480V	ATV630U55N4
7.50	ATV630 VSD IP21 7.5kW 400V/480V	ATV630U75N4
11	ATV630 VSD IP21 11kW 400V/480V	ATV630D11N4
15	ATV630 VSD IP21 15kW 400V/480V	ATV630D15N4
18.50	ATV630 VSD IP21 18kW 400V/480V	ATV630D18N4
22	ATV630 VSD IP21 22kW 400V/480V	ATV630D22N4
30	ATV630 VSD IP21 30kW 400V/480V	ATV630D30N4
37.50	ATV630 VSD IP21 37kW 400V/480V	ATV630D37N4
45	ATV630 VSD IP21 45kW 400V/480V	ATV630D45N4
55	ATV630 VSD IP21 55kW 400V/480V	ATV630D55N4
75	ATV630 VSD IP21 75kW 400V/480V	ATV630D75N4
90	ATV630 VSD IP21 90kW 400V/480V	ATV630D90N4

Altivar 650 IP55 Process Variable Speed Drive - 400-480V AC

0.75	ATV650 VSD IP55 0.75kW 400V/480V	ATV650U07N4
1.50	ATV650 VSD IP55 1.5kW 400V/480V	ATV650U15N4
2.20	ATV650 VSD IP55 2.2kW 400V/480V	ATV650U22N4
3.00	ATV650 VSD IP55 3kW 400V/480V	ATV650U30N4
4.00	ATV650 VSD IP55 4kW 400V/480V	ATV650U40N4
5.50	ATV650 VSD IP55 5.5kW 400V/480V	ATV650U55N4
7.50	ATV650 VSD IP55 7.5kW 400V/480V	ATV650U75N4
11	ATV650 VSD IP55 11kW 400V/480V	ATV650D11N4
15	ATV650 VSD IP55 15kW 400V/480V	ATV650D15N4
18.50	ATV650 VSD IP55 18kW 400V/480V	ATV650D18N4
22	ATV650 VSD IP55 22kW 400V/480V	ATV650D22N4
30	ATV650 VSD IP55 30kW 400V/480V	ATV650D30N4
37.50	ATV650 VSD IP55 37kW 400V/480V	ATV650D37N4
45	ATV650 VSD IP55 45kW 400V/480V	ATV650D45N4
55	ATV650 VSD IP55 55kW 400V/480V	ATV650D55N4
75	ATV650 VSD IP55 75kW 400V/480V	ATV650D75N4
90	ATV650 VSD IP55 90kW 400V/480V	ATV650D90N4

Altivar 650 IP55 Process Variable Speed Drive - 400-480V AC with Isolator

0.75	ATV650 VSD IP55 0.75kW 400V/480V with isolator	ATV650U07N4E
1.50	ATV650 VSD IP55 1.5kW 400V/480V with isolator	ATV650U15N4E
2.20	ATV650 VSD IP55 2.2kW 400V/480V with isolator	ATV650U22N4E
3.00	ATV650 VSD IP55 3kW 400V/480V with isolator	ATV650U30N4E
4.00	ATV650 VSD IP55 4kW 400V/480V with isolator	ATV650U40N4E
5.50	ATV650 VSD IP55 5.5kW 400V/480V with isolator	ATV650U55N4E
7.50	ATV650 VSD IP55 7.5kW 400V/480V with isolator	ATV650U75N4E
11	ATV650 VSD IP55 11kW 400V/480V with isolator	ATV650D11N4E
15	ATV650 VSD IP55 15kW 400V/480V with isolator	ATV650D15N4E
18.50	ATV650 VSD IP55 18kW 400V/480V with isolator	ATV650D18N4E
22	ATV650 VSD IP55 22kW 400V/480V with isolator	ATV650D22N4E
30	ATV650 VSD IP55 30kW 400V/480V with isolator	ATV650D30N4E
37.50	ATV650 VSD IP55 37kW 400V/480V with isolator	ATV650D37N4E
45	ATV650 VSD IP55 45kW 400V/480V with isolator	ATV650D45N4E
55	ATV650 VSD IP55 55kW 400V/480V with isolator	ATV650D55N4E
75	ATV650 VSD IP55 75kW 400V/480V with isolator	ATV650D75N4E
90	ATV650 VSD IP55 90kW 400V/480V with isolator	ATV650D90N4E

Altivar 650 IP55 Process Variable Speed Drive - 400-480V AC

0.75	ATV650 VSD IP55 0.75kW 400V/480V	ATV650U07N4
1.50	ATV650 VSD IP55 1.5kW 400V/480V	ATV650U15N4
2.20	ATV650 VSD IP55 2.2kW 400V/480V	ATV650U22N4
3.00	ATV650 VSD IP55 3kW 400V/480V	ATV650U30N4
4.00	ATV650 VSD IP55 4kW 400V/480V	ATV650U40N4
5.50	ATV650 VSD IP55 5.5kW 400V/480V	ATV650U55N4
7.50	ATV650 VSD IP55 7.5kW 400V/480V	ATV650U75N4
11	ATV650 VSD IP55 11kW 400V/480V	ATV650D11N4
15	ATV650 VSD IP55 15kW 400V/480V	ATV650D15N4
18.50	ATV650 VSD IP55 18kW 400V/480V	ATV650D18N4
22	ATV650 VSD IP55 22kW 400V/480V	ATV650D22N4
30	ATV650 VSD IP55 30kW 400V/480V	ATV650D30N4
37.50	ATV650 VSD IP55 37kW 400V/480V	ATV650D37N4
45	ATV650 VSD IP55 45kW 400V/480V	ATV650D45N4
55	ATV650 VSD IP55 55kW 400V/480V	ATV650D55N4
75	ATV650 VSD IP55 75kW 400V/480V	ATV650D75N4
90	ATV650 VSD IP55 90kW 400V/480V	ATV650D90N4

Altivar Process ATV900

Variable speed drive with embedded services dedicated to process industry and utilities for 3 phases synchronous, asynchronous and special motors from 0.75kW to 1.5MW.

Altivar 930 IP21 Process Variable Speed Drive - 400-480V AC

Power (kW)	Description	Part No.
0.75	ATV930 VSD IP21 0.75kW 400V/480V	ATV930U07N4
1.50	ATV930 VSD IP21 1.5kW 400V/480V	ATV930U15N4
2.20	ATV930 VSD IP21 2.2kW 400V/480V	ATV930U22N4
3.00	ATV930 VSD IP21 3kW 400V/480V	ATV930U30N4
4.00	ATV930 VSD IP21 4kW 400V/480V	ATV930U40N4
5.50	ATV930 VSD IP21 5.5kW 400V/480V	ATV930U55N4
7.50	ATV930 VSD IP21 7.5kW 400V/480V	ATV930U75N4
11	ATV930 VSD IP21 11kW 400V/480V	ATV930D11N4
15	ATV930 VSD IP21 15kW 400V/480V	ATV930D15N4
18.50	ATV930 VSD IP21 18.5kW 400V/480V	ATV930D18N4
22	ATV930 VSD IP21 22kW 400V/480V	ATV930D22N4
30	ATV930 VSD IP21 30kW 400V/480V	ATV930D30N4
37.50	ATV930 VSD IP21 37kW 400V/480V	ATV930D37N4
45	ATV930 VSD IP21 45kW 400V/480V	ATV930D45N4
55	ATV930 VSD IP21 55kW 400V/480V	ATV930D55N4
75	ATV930 VSD IP21 75kW 400V/480V	ATV930D75N4
90	ATV930 VSD IP21 90kW 400V/480V	ATV930D90N4

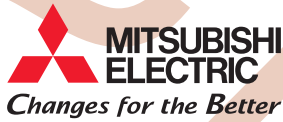
Altivar 950 IP55 Process Variable Speed Drive - 400-480V AC

0.75	ATV950 VSD IP55 0.75kW 400V/480V	ATV950U07N4
1.50	ATV950 VSD IP55 1.5kW 400V/480V	ATV950U15N4
2.20	ATV950 VSD IP55 2.2kW 400V/480V	ATV950U22N4
3.00	ATV950 VSD IP55 3kW 400V/480V	ATV950U30N4
4.00	ATV950 VSD IP55 4kW 400V/480V	ATV950U40N4
5.50	ATV950 VSD IP55 5.5kW 400V/480V	ATV950U55N4
7.50	ATV950 VSD IP55 7.5kW 400V/480V	ATV950U75N4
11	ATV950 VSD IP55 11kW 400V/480V	ATV950D11N4
15	ATV950 VSD IP55 15kW 400V/480V	ATV950D15N4
18.50	ATV950 VSD IP55 18.5kW 400V/480V	ATV950D18N4
22	ATV950 VSD IP55 22kW 400V/480V	ATV950D22N4
30	ATV950 VSD IP55 30kW 400V/480V	ATV950D30N4
37.50	ATV950 VSD IP55 37kW 400V/480V	ATV950D37N4
45	ATV950 VSD IP55 45kW 400V/480V	ATV950D45N4
55	ATV950 VSD IP55 55kW 400V/480V	ATV950D55N4
75	ATV950 VSD IP55 75kW 400V/480V	ATV950D75N4
90	ATV950 VSD IP55 90kW 400V/480V	ATV950D90N4

Altivar 950 IP55 Process Variable Speed Drive - 400-480V AC with Isolator

0.75	ATV950 VSD IP55 0.75kW 400V/480V with isolator	ATV950U07N4E
1.50	ATV950 VSD IP55 1.5kW 400V/480V with isolator	ATV950U15N4E
2.20	ATV950 VSD IP55 2.2kW 400V/480V with isolator	ATV950U22N4E
3.00	ATV950 VSD IP55 3kW 400V/480V with isolator	ATV950U30N4E
4.00	ATV950 VSD IP55 4kW 400V/480V with isolator	ATV950U40N4E
5.50	ATV950 VSD IP55 5.5kW 400V/480V with isolator	ATV950U55N4E
7.50	ATV950 VSD IP55 7.5kW 400V/480V with isolator	ATV950U75N4E
11	ATV950 VSD IP55 11kW 400V/480V with isolator	ATV950D11N4E
15	ATV950 VSD IP55 15kW 400V/480V with isolator	ATV950D15N4E
18.50	ATV950 VSD IP55 18.5kW 400V/480V with isolator	ATV950D18N4E
22	ATV950 VSD IP55 22kW 400V/480V with isolator	ATV950D22N4E
30	ATV950 VSD IP55 30kW 400V/480V with isolator	ATV950D30N4E
37.50	ATV950 VSD IP55 37kW 400V/480V with isolator	ATV950D37N4E
45	ATV950 VSD IP55 45kW 400V/480V with isolator	ATV950D45N4E
55	ATV950 VSD IP55 55kW 400V/480V with isolator	ATV950D55N4E
75	ATV950 VSD IP55 75kW 400V/480V with isolator	ATV950D75N4E
90	ATV950 VSD IP55 90kW 400V/480V with isolator	ATV950D90N4E





Electric Frequency Inverters

The great variety of Mitsubishi Electric frequency inverter models makes it easy for the user to choose the optimum inverter for application.

There are four different inverter series:

- FR-D700
- FR-E700
- FR-F800
- FR-A800

The frequency inverters are available with an output range from 0.1kW to 630kW

FR-D700 Ultra-compact Standard Inverter

Description	Part No.
0.1kW Single phase high performance micro inverter, 0.8A	FR-D720S-008SC-EC
0.2kW Single phase high performance micro inverter, 1.4A	FR-D720S-014SC-EC
0.4kW Single phase high performance micro inverter, 2.5A	FR-D720S-025SC-EC
0.75kW Single phase high performance micro inverter, 4.2A	FR-D720S-042SC-EC
1.5kW Single phase high performance micro inverter, 7A	FR-D720S-070SC-EC
2.2kW Single phase high performance micro inverter, 10A	FR-D720S-100SC-EC

FR-E700 Compact Inverter

0.4kW Three phase, high performance, compact inverter, 1.6A	FR-E740-016SC-EC
0.75kW Three phase, high performance, compact inverter, 2.6A	FR-E740-026SC-EC
1.5kW Three phase, high performance, compact inverter, 4A	FR-E740-040SC-EC
2.2kW Three phase, high performance, compact inverter, 6A	FR-E740-060SC-EC
3.7kW Three phase, high performance, compact inverter, 9.5A	FR-E740-095SC-EC
5.5kW Three phase, high performance, compact inverter, 12A	FR-E740-120SC-EC

FR-F800 Energy Saving Inverter

F800 Inverter; Rated Power: 2.2kW; 3x380-500V; In max: 5.2A;(2.2kW; 5.2A); IP20	FR-F840-00052-E2-60
F800 Inverter; Rated Power: 3.7kW; 3x380-500V; In max: 8.3A;(3.7kW; 8.3A); IP20	FR-F840-00083-E2-60
F800 Inverter; Rated Power: 5.5kW; 3x380-500V; In max: 12.6A;(5.5kW; 12.6A); IP20	FR-F840-00126-E2-60
F800 Inverter; Rated Power: 7.5kW; 3x380-500V; In max: 17A;(7.5kW; 17A); IP20	FR-F840-00170-E2-60
F800 Inverter; Rated Power: 11kW; 3x380-500V; In max: 25A; (11kW; 25A); IP20	FR-F840-00250-E2-60
F800 Inverter; Rated Power: 15kW; 3x380-500V; In max: 31A; (15kW; 31A); IP20	FR-F840-00310-E2-60

FR-A800 High End Inverter

FR-A800 Inverter; ND Rated Power: 2.2kW; 3x380-500V; Rated Current: 6A; IP20	FR-A840-00083-E2-60
FR-A800 Inverter; ND Rated Power: 3.7kW; 3x380-500V; Rated Current: 9A; IP20	FR-A840-00126-E2-60
FR-A800 Inverter; ND Rated Power: 5.5kW; 3x380-500V; Rated Current: 12A; IP20	FR-A840-00170-E2-60
FR-A800 Inverter; ND Rated Power: 7.5kW; 3x380-500V; Rated Current: 17A; IP20	FR-A840-00250-E2-60
FR-A800 Inverter; ND Rated Power: 11kW; 3x380-500V; Rated Current: 23A; IP20	FR-A840-00310-E2-60
FR-A800 Inverter; ND Rated Power: 15kW; 3x380-500V; Rated Current: 31A; IP20	FR-A840-00380-E2-60

Basic PSR Soft Starters

Basic PSR Series			
Ratings		24V AC/DC	110-230V
kW (400V)	A	Part No.	Part No.
1.5	3	PSR3-600-11	PSR3-600-70
3	6	PSR6-600-11	PSR6-600-70
4	9	PSR9-600-11	PSR9-600-70
5.5	12	PSR12-600-11	PSR12-600-70
7.5	16	PSR16-600-11	PSR16-600-70
11	25	PSR25-600-11	PSR25-600-70
15	30	PSR30-600-11	PSR30-600-70
18.5	37	PSR37-600-11	PSR37-600-70
22	45	PSR45-600-11	PSR45-600-70
30	60	PSR60-600-11	PSR60-600-70
37	72	PSR72-600-11	PSR72-600-70
45	85	PSR85-600-11	PSR85-600-70
55	105	PSR105-600-11	PSR105-600-70

Accessories	
Description	Part No.
Connection kit PSR3 - 16 and MS116	1SFA896211R1001
Connection kit PSR37 - 45 and MS450	1SFA896213R1001
Connection kit PSR60 - 105 and MS495	1SAM501903R1001
Fan for PSR3 to PSR45	1SFA896311R1001
Fan for PSR60 to PSR105	1SFA896313R1001



Sirius RW30 Soft Starters

For Easy Start-Up Conditions & High Switching Frequencies						
Size	Rated operating voltage	Ambient temperature 40°C		Part Number AC/DC 24V	Part Number AC/DC 110...230V	
		Rated operating current in (A)	Rated power of three-phase motors with rated operating voltage			
			230V (kW)			400V (kW)
S00	200 ... 480V	3.6	0.75	1.5	3RW3013-1BB04	3RW3013-1BB14
		6.5	1.5	3	3RW3014-1BB04	3RW3014-1BB14
		9	2.2	4	3RW3016-1BB04	3RW3016-1BB14
		12.5	3	5.5	3RW3017-1BB04	3RW3017-1BB14
		17.6	4	7.5	3RW3018-1BB04	3RW3018-1BB14
S0	Screw-type terminals	25	5.5	11	3RW3026-1BB04	3RW3026-1BB14
		32	7.5	15	3RW3027-1BB04	3RW3027-1BB14
		38	11	18.5	3RW3028-1BB04	3RW3028-1BB14
S2		45	11	22	3RW3036-1BB04	3RW3036-1BB14
		63	18.5	30	3RW3037-1BB04	3RW3037-1BB14
S3		72	22	37	3RW3038-1BB04	3RW3038-1BB14
		80	22	45	3RW3046-1BB04	3RW3046-1BB14
		106	30	55	3RW3047-1BB04	3RW3047-1BB14



Sirius RW40 Soft Starters

Soft Starters for 3-Phase Motors (with current /limiting & integrated overload relay)						
Size	Rated operating voltage	Ambient temperature 40°C		Part Number AC/DC 24V	Part Number AC/DC 110...230V	
		Rated operating current in (A)	Rated power of three-phase motors with rated operating voltage			
			230V (kW)			400V (kW)
S0	200 ... 480V	12.5	3	5.5	3RW4024-1BB04	3RW4024-1BB14
		25	5.5	11	3RW4026-1BB04	3RW4026-1BB14
		32	7.5	15	3RW4027-1BB04	3RW4027-1BB14
		38	11	18.5	3RW4028-1BB04	3RW4028-1BB14
S2	Screw-type terminals	45	11	22	3RW4036-1BB04	3RW4036-1BB14
		63	18.5	30	3RW4037-1BB04	3RW4037-1BB14
		72	22	37	3RW4038-1BB04	3RW4038-1BB14
S3		80	22	45	3RW4046-1BB04	3RW4046-1BB14
		106	30	55	3RW4047-1BB04	3RW4047-1BB14
S6		134	37	75	3RW4055-1BB14	3RW4055-1BB14
		162	45	90	3RW4056-1BB14	3RW4056-1BB14
S12		230	75	132	3RW4073-1BB14	3RW4073-1BB14





Altistart 01 – Electronic Soft Starter 110V to 480V

k3Amp ... 85Amp.

Soft Start 110V-480V

Ratings		Part No.
kW (400V)	A	
1.1	3	ATS01N103FT
2.2	6	ATS01N106FT
4	9	ATS01N109FT
5.5	12	ATS01N112FT
7.5	25	ATS01N125FT

Soft Start/Stop 200V...240V

Ratings		Part No.
kW	A	
1.1	6	ATS01N206LU
2.2	9	ATS01N209LU
4	12	ATS01N212LU
5.5	22	ATS01N222LU
7.5	32	ATS01N232LU

Soft Start/Stop 380V...415V

Ratings		Part No.
kW	A	
2.2	6	ATS01N206QN
4	9	ATS01N209QN
5.5	12	ATS01N212QN
11	22	ATS01N222QN
15	32	ATS01N232QN

Soft Start/Stop 440V...480V

Ratings		Part No.
kW	A	
2.2/3.0	6	ATS01N206RT
4.0/5.0	9	ATS01N209RT
5.5/7.5	12	ATS01N212RT
10.0/15.0	22	ATS01N222RT
18.5/20.0	32	ATS01N232RT

Soft Start/Stop 200V...690V

Ratings		Part No.
kW	A	
30	32	ATS01N230LY
37	44	ATS01N244LY
55	72	ATS01N272LY
75	85	ATS01N285LY

Altistart 22 – Medium Level

Full 3 phase softstarter with built in bypass.

Fully adjustable motor overload protection, acceleration, deceleration, current limit etc. In-built modus comms port.

Soft Start/Stop 230-440V

Ratings		Part No.
kW (400V)	A	
7.5	17	ATS22D17Q
15	32	ATS22D32Q
22	47	ATS22D47Q
30	62	ATS22D62Q
37	75	ATS22D75Q

Altistart 48 – High Level

Full 3 phase softstarter with torque control.

Fully adjustable motor overload protection, acceleration, deceleration, current limit etc. In-built modus comms port.

Soft Start/Stop 230-440V

Ratings		Part No.
kW (400V)	A	
7.5	17	ATS48D17Q
11	22	ATS48D22Q
15	32	ATS48D32Q
18.5	38	ATS48D38Q
22	47	ATS48D47Q
30	62	ATS48D62Q
37	75	ATS48D75Q

Signal Conditioners

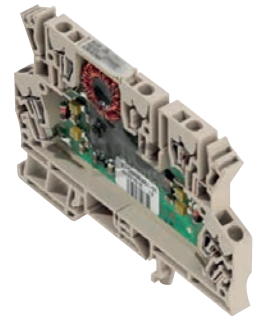
- Just 6mm wide
- Tension clamp connection technology

MCZ Series					
Input Type	Input	Output	Supply Voltage	Description	Part No.
DC Signal	0(4)...20mA	0(4)...20mA	I/P Loop powered	MCZ CCC	8411190000
PT100/2/3	0...200°C	4...20mA	O/P Loop powered	MCZ PT100/3	8473010000
Accessories					
End plate for MCZ series				AP MCZ 1.5	8389030000

ACT20M Series					
Input Type	Input	Output	Supply Voltage	Description	Part No.
DC signal	0..20mA, 4...20mA	0..20mA, 4...20mA	24V	ACT20M-CI-CO-S	1175980000
DC signal	0..20mA, 4...20mA, 0...10V, 0...5V	0..20mA, 4...20mA, 0...10V, 0...5V	24V	ACT20M-AI-AO-E-S	1176010000
DC signal	0..20mA, 4...20mA, 0...10V, 0...5V	2 x 0..20mA, 4...20mA, 0...10V, 0...5V	24V	ACT20M-AI-2AO-S	1176020000
DC signal	4...20mA	4...20mA	O/P Loop powered	ACT20M-CI-CO-OLP-S	1176040000
DC signal	0..20mA, 4...20mA	0..20mA, 4...20mA	I/P Loop powered	ACT20M-CI-CO-ILP-S	1176070000
Thermocouple	Type J, K	0..20mA, 4...20mA, 0...10V, 0...5V	24V	ACT20M-TCI-AO-S	1375480000
PT100/2/3/4	PT100 /2/3/4	0..20mA, 4...20mA, 0...10V, 0...5V	24V	ACT20M-RTI-AO-S	1375510000

ACT20P Series					
Input Type	Input	Output	Supply Voltage	Description	Part No.
DC Signal	2 x 0..20mA 4...20mA	2 x 0..20mA 4...20mA	24V	ACT20P-2CI-2CO-12	7760054117
DC Signal	+20mV...+300V +0.1mA...+100mA	0...+10V 0...+20mA	24...230V DC 24...230V AC	ACT20P – Pro DCDC II	1481970000
Universal	PT100, PT1000, PT200, N120, Thermocouple, Pot +300V, +5A	4...20mA	O/P Loop powered	ACT20P-UI-AO-DO-LP-S	1453210000
RTD	PT100 / 2-/3-/4-wire -200...+850°C	-20...+20 mA ± 10mA 0(4)...20mA 0...5V 0(1)...5V 0(2)...10V -5...+5V -10...+10V	24...230V DC ±15% 24...230V AC ±15%	ACT20P-PRO-RTCI-AO-DO-S	2448100000
Universal	Thermocouple, RTD, Resistance, voltage & current	2 CO contacts, normal / inverse adjustment	9...60V DC	ACT20P-UI-2RCO-DC-S	7940045760
Thermocouple	Type K,J,T,E,N,R,S,B	0..20mA 4...20mA 0...10V	24V	WAS5 PRO Thermo	8560720000

Weidmüller 



AUTOMATION

SIGNAL CONDITIONERS



Sensor Actuator Interface

M8 Leads

Type			Part No.
M8 lead with	Straight socket	3 Pole, PVC, 1.5m	1927240150
		4 Pole, PVC, 1.5m	1927260150
	90° socket	3 Pole, PVC, 1.5m	1927320150
		4 Pole, PVC, 1.5m	1927340150
	Straight plug	4 Pole, PUR, 1.5m	1824590150
		90° plug	4 Pole, PUR, 1.5m

M8 Distribution Boxes

Type			Part No.
M8	4-Way	3 Pole	1828720000
		4 Pole	1849680000
	8-Way	3 Pole	1828680000
		4 Pole	1828620000

M8 Connecting Cables

Type			Part No.
M8	Straight socket	90° socket	3 Pole, PUR, 1.5m
		4 Pole, PUR, 1.5m	1824580150
	Straight socket	3 Pole, PUR, 1.5m	1857660150
		4 Pole, PUR, 1.5m	1824570150
	90° plug	4 Pole, PUR, 1.5m	1880470150
		3 Pole, PUR, 1.5m	1857670150
8-Way distribution box	4 Pole, PUR, 1.5m	1857680150	
			1828620000

Panel Mount Plugs

Type			Part No.
Panel mount	Plug	3 Pole	1861280000
		4 Pole	1861290000
	Socket	3 Pole	1856130000
		4 Pole	1856140000

M12 Leads

Type			Part No.
M12 lead with	Straight socket	4 Pole, PUR, 1.5m	9457730150
		5 Pole, PUR, 1.5m	9457910150
	90° socket	4 Pole, PUR, 1.5m	9457740150
		5 Pole, PUR, 1.5m	9457690150
	Straight plug	4 Pole, PUR, 1.5m	9456100150
		5 Pole, PUR, 1.5m	9457610150
	90° plug	4 Pole, PUR, 1.5m	1906260150
		5 Pole, PUR, 1.5m	9457670150

M12 Distribution Boxes

Type			Part No.
M12	Fixed cable	4-Way	4 Pole, 3m
			5 Pole, 3m
		8-Way	4 Pole, 3m
			5 Pole, 3m
	Hood version	4-Way	4 Pole
			5 Pole
		8-Way	4 Pole
			5 Pole
			5 Pole
			8-Way NPN-PNP sensors fixed cable version
			9456180000
			9456320000
			9456740000
			9456880000
			1705920000
			1701230000
			1705940000
			1701250000
			1814990000

M12 Connecting Cables

Type			Part No.	
M12	Straight plug	90° socket	4 Pole, PUR, 1.5m	
			5 Pole, PUR, 1.5m	
		Straight socket	4 Pole, PUR, 1.5m	9457310150
			5 Pole, PUR, 1.5m	9457270150
	90° socket	90° plug	4 Pole, PUR, 1.5m	9457190000
			5 Pole, PUR, 1.5m	9457340150
			4 Pole, PUR, 1.5m	1906310150
			5 Pole, PUR, 1.5m	9457900150

Ethernet

ValueLine Unmanaged Ethernet Switches

Type	Description	Part No.
IE-SW-BL05-5TX	Unmanaged switch 5 x RJ45	1240840000
IE-SW-BL08-8TX	Unmanaged switch 8 x RJ45	1240900000
IE-SW-BL08-6TX-2SC	Unmanaged switch 6 x RJ45 / 2 x SC Fibre	1240910000
IE-SW-VL16-16TX	Unmanaged switch 16 x RJ45	1241000000

ValueLine Managed Ethernet Switches

Type	Description	Part No.
IE-SW-VL05M-5TX	Managed switch 5 x RJ45	1504280000
IE-SW-VL08MT-8TX	Managed switch 8 x RJ45	1240940000
IE-SW-VL08MT-6TX-2SC	Managed switch 6 x RJ45 / 2 x SC Fibre	1344770000

ValueLine Media Converter

Type	Description	Part No.
IE-MC-VL-1TX-1SC	Media converter 1 x RJ45 / 1 x SC Fibre	1241400000

WLAN AP/Bridge/Client

Type	Description	Part No.
IE-WL-BL-AP-CL-EU	Wireless access point/bridge/client, 1 x RJ45	2536600000
IE-WL-VL-AP-BR-CL-EU	Wireless access point/bridge/client, 1 x RJ45, Digital inputs, alarm contact	2536680000

Industrial Security Router

Type	Description	Part No.
IE-SR-2GT-LTE/4G-EU	Security/NAT/VPN/U-link Router, with integrated LTE / 4G modem, EU model, Gigabit Ethernet, 2x 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode	2535930000
IE-SR-6GT-LAN	Security/NAT/VPN/U-link Router, Gigabit Ethernet, 6x 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode	2535940000
IE-SR-6GT-LTE/4G-EU	Security/NAT/VPN/U-link Router, with integrated LTE / 4G modem, EU model, Gigabit Ethernet, 6x 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode	2535960000

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AUTOMATION



ETHERNET



u-remote IP20

FieldBus Couplers

Type	Description	Part No.
UR20-FBC-PB-DP	Field bus coupler, PROFIBUS DP-V1	1334870000
UR20-FBC-PN-IRT	Field bus coupler, PROFINET IRT	1334880000
UR20-FBC-EIP	Field bus coupler, EtherNet/IP	1334920000
UR20-FBC-EC	Field bus coupler, EtherCAT	1334910000
UR20-FBC-MOD	Field bus coupler, Modbus TCP	1334930000

Digital Input Modules

UR20-4DI-P	Digital input module, 4 channels	1315170000
UR20-8DI-P-2W	Digital input module, 8 channels, 2-wire	1315180000
UR20-8DI-P-3W	Digital input module, 8 channels, 3-wire	1394400000
UR20-16DI-P	Digital input module, 16 channels	1315200000
UR20-16DI-P-PLC-INT	Digital input module, 16 channels, PLC interface	1315210000
UR20-2DI-P-TS	Digital input module, 2 channel, 1uS timestamp resolution	1460140000
UR20-4DI-P-TS	Digital input module, 4 channel, 1uS timestamp resolution	1460150000
UR20-8DI-P-3W-HD	Digital input module, 8 channels, 3-wire, High density	1315190000

Digital Output Modules

UR20-4DO-P	Digital output module, 4 channels	1315220000
UR20-4DO-P-2A	Digital output module, 4 channels, 2A	1315230000
UR20-8DO-P	Digital output module, 8 channels	1315240000
UR20-16DO-P	Digital output module, 16 channels	1315250000
UR20-16DO-P-PLC-INT	Digital output module, 16 channels, PLC interface	1315270000
UR20-4RO-SSR-255	Digital output module, 4 channels, SSR	1315540000
UR20-4RO-CO-255	Digital output module, 4 channels, relay	1315550000
UR20-4DO-PN-2A	Digital output module, 4 channels, 2A per channel, positive or negative switching	1394420000

Digital Output Pulse Width Modulation

UR20-2PWM-0.5A	Digital output module, PWM, 2 channels, 0.5A	1315600000
UR20-2PWM-2A	Digital output module, PWM, 2 channels, 2A	1315610000

Analogue Input Modules

UR20-4AI-UI-16	Analogue input module, 4 channels, 16 bits	1315620000
UR20-4AI-UI-12	Analogue input module, 4 channels, 12 bits	1394390000
UR20-8AI-I-PLC-INT	Analogue input module, 8 channels, 16 bits, PLC interface	1315670000
UR20-4AI-TC-DIAG	Analogue input module, 4 channels, thermocouple	1315710000
UR20-4AI-RTD-DIAG	Analogue input module, 4 channels, RTD	1315700000
UR20-4AI-UI-16-DIAG	Analogue input module, 4 channels, 16 bits, channel diagnostics	1315690000
UR20-4AI-UI-16-HD	Analogue input module, 4 channels, 16 bits, high density connection	1506920000
UR20-4AI-UI-16-DIAG-HD	Analogue input module, 4 channels, 16 bits, high density connection, channel diagnostics	1506910000
UR20-8AI-I-16-HD	Analogue input module, 8 channels, 16 bits, high density connection	1315650000
UR20-8AI-I-16-DIAG-HD	Analogue input module, 8 channels, 16 bits, high density connection, channel diagnostics	1315720000

Analogue Output Modules

UR20-4AO-UI-16	Analogue output module, 4 channels, 16 bits	1315680000
UR20-4AO-UI-16-DIAG	Analogue output module, 4 channels, 16 bits, channel diagnostics	1315730000
UR20-4AO-UI-16-HD	Analogue output module, 4 channels, 16 bits, high density connection	1510690000
UR20-4AO-UI-16-DIAG-HD	Analogue output module, 4 channels, 16 bits, high density connection, channel diagnostics	1506930000

Power Supply Feed-In Modules

UR20-PF-I	Power supply module, input current path	1334710000
UR20-PF-O	Power supply module, output current path	1334740000

SIL Safety Modules

UR20-PF-0-1DI-SIL	Safety module, 1 digital input	1335030000
UR20-PF-0-2DI-SIL	Safety module, 2 digital inputs	1335050000
UR20-PF-0-2DI-DELAY-SIL	Safety module, 2 digital inputs, delayed	1335040000

Counter Modules

UR20-1CNT-100-1DO	Counter module, 100kHz, 1 counter	1315570000
UR20-2CNT-100	Counter module, 100kHz, 2 counter	1315590000

Distribution Modules

UR20-16AUX-I	Potential distribution module, 16 channels, input current path, 24V DC	1334770000
UR20-16AUX-O	Potential distribution module, 16 channels, output current path, 24V DC	1334780000
UR20-16AUX-FE	Potential distribution module, 16 channels, functional earth	1334790000
UR20-16AUX-GND-I	Grounding distribution module, 16 channels, input current path	1334800000
UR20-16AUX-GND-O	Grounding distribution module, 16 channels, output current path	1334810000

Accessories

UR20-ES	Empty slot module	1315770000
UR20-EBK-ACC	Termination kit	1346610000
UR20-SM-ACC	Swivel marker	1339920000

Lightning & Surge Protection (SPD)

Type 1 - LPL I/II/III/IV

Description	Version	Rated Voltage Uc	Discharge Capacity I _{max}	Protection Level	Signalling Contact	Part No.
VPU I 4 LCF 280V/25kA	4-pole	280V	25kA	1600V		1351730000
VPU I 4 R LCF 280V/25kA	4-pole	280V	25kA	1600V	1 CO	1351720000
VPU I 2 LCF 280V/25kA	2-pole	280V	25kA	1600V		1351640000
VPU I 2 R LCF 280V/25kA	2-pole	280V	25kA	1600V	1 CO	1351620000
VPU I 1+1 LCF 280V/25kA	2-pole	280V	25kA	1600V		1351750000
VPU I 1+1R LCF 280V/25kA	2-pole	280V	25kA	1600V	1 CO	1351740000
VPU I 0 LCF 280V/25kA	Spare arrester					1351540000
VPU I 0 N-PE 260V/100kA	Spare arrester					1351940000

Type 1 - LPL III/IV

Description	Version	Rated Voltage Uc	Discharge Capacity I _{max}	Protection Level	Signalling Contact	Part No.
VPU I 4 280V/12.5kA	4-pole	280V	12.5kA	1400V		1352180000
VPU I 4 R 280V/12.5kA	4-pole	280V	12.5kA	1400V	1 CO	1352190000
VPU I 3+1 LCF 280V/12.5kA	4-pole	280V	12.5kA	1400V		1352020000
VPU I 3+1R LCF 280V/12.5kA	4-pole	280V	12.5kA	1400V	1 CO	1352030000
VPU I 2 280V/12.5kA	2-pole	280V	12.5kA	1400V		1352150000
VPU I 2 R 280V/12.5kA	2-pole	280V	12.5kA	1400V	1 CO	1352170000
VPU I 1+1 280V/12.5kA	2-pole	280V	12.5kA	1400V		1352250000
VPU I 1+1R 280V/12.5kA	2-pole	280V	12.5kA	1400V	1 CO	1352270000
VPU I 0 280V/12.5kA	Spare arrester					1352120000
VPU I 0 N-PE 260V/50kA	Spare arrester					1351930000

Type 2

Description	Version	Rated Voltage Uc	Discharge Capacity I _{max}	Protection Level	Signalling Contact	Part No.
VPU II 4 280V/40kA	4-pole	280V	40kA	1550V		1352680000
VPU II 4 R 280V/40kA	4-pole	280V	40kA	1550V	1 CO	1352690000
VPU II 3+1 280V/40kA	4-pole	280V	40kA	1550V		1352650000
VPU II 3+1 R 280V/40kA	4-pole	280V	40kA	1550V	1 CO	1352670000
VPU II 3 280V/40kA	3-pole	280V	40kA	1550V		1352700000
VPU II 3 R 280V/40kA	3-pole	280V	40kA	1550V	1 CO	1352720000
VPU II 2 280V/40kA	2-pole	280V	40kA	1550V		1352600000
VPU II 2 R 280V/40kA	2-pole	280V	40kA	1550V	1 CO	1352620000
VPU II 0 280V/40kA	Spare arrester					1352570000
VPU II 0 N-PE 440V/40kA	Spare arrester					1351180000

Type 3

Description	Version	Rated Voltage Uc	Discharge Capacity I _{max}	Protection Level	Signalling Contact	Part No.
PU III R 230V/6kV	1-pole	230V	3kA	1800V	1 CO	1351650000
PU III R 24V/4kV	1-pole	24V	2kA	890V	1 CO	1351580000

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SENSING



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OsiSense - Sense the Difference

OsiSense range of products offers the complete solution in sensor detection. This includes presence and position sensors such as limit switches, photo-electric, proximity, ultrasonic, encoders; identification (RFID system) and process control; pressure switches and safety devices such as light curtains and safety switches.

We continually invest in research and development, ensuring we can offer our customers the best products and services.

Osisense XS - Proximity Inductive Switch

Features

- Metal case
- Pre-cabled or connector types available
- Operation mode NO

Technical Data

Enclosure rating: IP67
Ambient temperature: -25 to 80°C

XS Inductive Promity Sensors

Sensing Range (mm)	Size	Type	Output	Connection Method	Part No.
2.5	M8	Short flush mountable	PNP N/O	Cable 2m length	XS108B3PAL2
				M8 connector	XS108B3PAM8
4	M12	Short flush mountable	PNP N/O	Cable 2m length	XS112B3PAL2
				M12 connector	XS112B3PAM12
8	M18	Short flush mountable	PNP N/O	Cable 2m length	XS118B3PAL2
				M12 connector	XS118B3PAM12
15	M30	Short flush mountable	PNP N/O	Cable 2m length	XS130B3PAL2
				M12 connector	XS130B3PAM12
2.5	M8	Long flush mountable	PNP N/O	Cable 2m length	XS608B1PAL2
				M12 connector	XS608B1PAM12
4	M12	Long flush mountable	AC/DC N/O	Cable 2m length	XS612B1MAL2
		Short flush mountable	AC/DC N/O	½" 20UNF connector	XS612B1MAU20
		Long flush mountable	PNP N/O	Cable 2m length	XS612B1PAL2
8	M12	Long flush mountable	AC/DC N/O	Cable 2m length	XS618B1MAL2
			PNP N/O	½" 20UNF connector	XS618B1MAU20
		M18	Long flush mountable	PNP N/O	Cable 2m length
PNP N/O	M12 connector			XS618B1PAM12	
15	M30	Long flush mountable	AC/DC N/O	Cable 2m length	XS630B1MAL2
			PNP N/O	½" 20UNF connector	XS630B1MAU20
			PNP N/O	Cable 2m length	XS630B1PAL2
				M12 connector	XS630B1PAM12

Accessories

Type	Description	Part No.
Pre Wired Connectors - 2 metres	M8 Straight	XZCP0566L2
	M8 Angled	XZCP0666L2
	M12 Straight	XZCP1141L2
	M12 Angled	XZCP1241L2
	½" 20UNF Straight	XZCP1865L2
	½" 20UNF Angled	XZCP1965L2





E2A Series

Extended sensing range inductive sensor in cylindrical brass housing

The high quality and the long-life design of the E2A extended sensing distance provide high operational reliability, accurate performance and long sensor lifetime for a wide range of applications.

Features

- Extended (double) sensing distance
- IP67 and IP69K for highest water protection
- DC 3-wire (NO, NC)
- Wide temperature range -40 to 70°C
- 200mA max load current
- Wide installation and connectivity range through modular concept

Pre-wired

Size	Sensing Distance	Thread Length (overall)	Output Configuration	Operation mode	
				NO Part No.	NC Part No.
M8	2.0mm	27 (40)mm	PNP*1	E2A-S08KS02-WP-B1 2M ²	E2A-S08KS02-WP-B2 2M ²
	4.0mm	21 (40)mm	PNP*1	E2A-S08KN04-WP-B1 2M ²	E2A-S08KN04-WP-B2 2M ²
M12	4.0mm	34 (50)mm	PNP*1	E2A-M12KS04-WP-B1 2M	E2A-M12KS04-WP-B2 2M
	8.0mm	27 (50)mm	PNP*1	E2A-M12KN08-WP-B1 2M	E2A-M12KN08-WP-B2 2M
M18	8.0mm	39 (59)mm	PNP*1	E2A-M18KS08-WP-B1 2M	E2A-M18KS08-WP-B2 2M
	16.0mm	29 (59)mm	PNP*1	E2A-M18KN16-WP-B1 2M	E2A-M18KN16-WP-B2 2M
M30	15.0mm	44 (64)mm	PNP*1	E2A-M30KS15-WP-B1 2M	E2A-M30KS15-WP-B2 2M
	20.0mm*3	29 (64)mm	PNP*1	E2A-M30KN20-WP-B1 2M	E2A-M30KN20-WP-B2 2M

Connector types (M12)

Size	Sensing Distance	Thread Length (overall)	Output Configuration	Operation mode	
				NO Part No.	NC Part No.
M8	2.0mm	27 (43)mm	PNP*1	E2A-S08KS02-M1-B1 ²	E2A-S08KS02-M1-B2 ²
	4.0mm	21 (43)mm	PNP*1	E2A-S08KN04-M1-B1 ²	E2A-S08KN04-M1-B2 ²
M12	4.0mm	24 (48)mm	PNP*1	E2A-M12KS04-M1-B1	E2A-M12KS04-M1-B2
	8.0mm	27 (48)mm	PNP*1	E2A-M12KN08-M1-B1	E2A-M12KN08-M1-B2
M18	8.0mm	39 (53)mm	PNP*1	E2A-M18KS08-M1-B1	E2A-M18KS08-M1-B2
	16.0mm	29 (53)mm	PNP*1	E2A-M18KN16-M1-B1	E2A-M18KN16-M1-B2
M30	15.0mm	44 (58)mm	PNP*1	E2A-M30KS15-M1-B1	E2A-M30KS15-M1-B2
	20.0mm*3	29 (58)mm	PNP*1	E2A-M30KN20-M1-B1	E2A-M30KN20-M1-B2

*1 NPN models are available. For ordering replace "-B1" or "-B2" by "-C1" or "-C2".

*2 M8 sized housings are only available in stainless steel (SUS 303).

*3 Models with longer sensing distances of 30mm & 35mm are available.

Cable Connectors

Size	Type	Features	Material		Straight		Angled	
			Nut	Cable	Part No.		Part No.	
M12	PRO	3 wire	Brass (CuZn)	PVC 2m	XS2F-M12PVC3S2M-EU		XS2F-M12PVC3A2M-EU	
				PUR 2m	XS2F-M12PUR3S2M-EU		XS2F-M12PUR3A2M-EU	

E3Z Series

General purpose sensor in compact plastic housing.

The compact housing size and the high-power LED provide an excellent performance size ratio and the high optical precision and long sensor lifetime make the sensor the first choice for standard and challenging applications.

Features

- Minimal optical axis deviation for easy alignment
- IP67 and IP69K for highest water resistance
- Intensive shielding for highest noise immunity (EMC)
- Multiple molding housing for high mechanical resistance



Compact Square		Connection Method		NPN output	PNP output
Sensor Type	Sensing Distance			Part No.*1	Part No.*1
Through-beam 	30m (infrared light)	-	-	E3Z-T62 2M	E3Z-T82 2M
	10m (Red light)	■	-	E3Z-T67	E3Z-T87
		-	-	E3Z-T61A 2M	E3Z-T81A 2M
		■	-	E3Z-T66A	E3Z-T86A
Retro-reflective with M.S.R. 	0.1 to 4m ² (infrared light)	-	-	E3Z-R61 2M	E3Z-R81 2M
		■	-	E3Z-R66	E3Z-R86
Retro-reflective without M.S.R. 	0.1 to 5m ² (infrared light)	-	-	E3Z-R61-4 2M	E3Z-R81-4 2M
		■	-	E3Z-R66-4	E3Z-R86-4
Diffuse-reflective 	1m (adjustable) (infrared light)	-	-	E3Z-D62 2M	E3Z-D82 2M
		■	-	E3Z-D67	E3Z-D87
Diffuse-reflective wide beam 	100m (adjustable) (infrared light)	-	-	E3Z-D61 2M	E3Z-D81 2M
		■	-	E3Z-D66	E3Z-D86

For ordering digital versions replace '2m' of cable types with:
M1.J: M12 with 30cm cable / M3.J: M8 4-pin with 30cm cable / M5.J: M8 3-pin with 30cm cable

*1Light-ON/Dark-ON switch selectable

*2Measured with E39-R1S

Size	Type	Features	Material		Straight		Angled	
			Nut	Cable	Part No.	Part No.		
M8		PRO	4 pin	Brass	PVC 2m	XS3F-M8PVC4S2M-EU	XS3F-M8PVC4A2M-EU	
				(CuZn)	PUR 2m	XS3F-M8PUR4S2M-EU	XS3F-M8PUR4A2M-EU	





Osisense XU - Photoelectric Switch

Multi-mode - OsiConcept - Key features

- Self teach precise set-up multi-mode detection
- Programmable through 4 modes of operation
- Programmable NO/NC switching
- Connection: 2m pre-cabled (L2) or plug-in connector (M12)

Sensing distance depending on mode and format

	M8 Format	Miniature Format	Compact 50x50 Format	Compact 92x71 Format
Diffuse	0.3	0.4	0.8	2
Background suppression	0.12	0.1	0.28	1.3
Polarised reflex	2	3	4	11
Through-beam	18	10	30	40

Multi-Mode Sensors

Type	Mode	Output	Connection Method	Part No.
M18 Metal	Multi-mode (4 in 1)	PNP	M12*	XUB0BPSNM12
M18 Plastic	Multi-mode (4 in 1)	PNP	M12*	XUB0APSNM12
Miniature plastic	Multi-mode (4 in 1)	PNP	M8*	XUM0APSAM8
Compact 50x50	Multi-mode (4 in 1)	PNP/NPN	M12*	XUK0AKSAM12
Compact 92x71	Multi-mode (4 in 1)	PNP/NPN	M12*	XUX0AKSAM12
Through-beam Accessory				
M18 Metal	Transmitter	M12*		XUB0BKSNM12T
M18 Plastic	Transmitter	M12*		XUB0AKSNM12T
Miniature plastic	Transmitter	M8*		XUM0AKSAM8T
Compact 50x50	Transmitter	M12*		XUK0AKSAM12T
Compact 92x71	Transmitter	M12*		XUX0AKSAM12T

*Version available with 2m of cable instead of M12 connector, just change in the Part No suffix (M12) to (L2) to get reference.

Single Function Sensors

Type	Mode	Sensing Distance (m)	Output	Connection Method	Part No.
M18 Metal	Diffuse	0.6	PNP, NO	M12*	XUB5BPANM12
	Polarised reflex	2	PNP, NO	M12*	XUB9BPANM12
	Reflex	4	PNP, NO	M12*	XUB1BPANM12
	Receiver thought-beam	15	PNP, NO	M12*	XUB2BPANM12R
	Transmitter thought-beam	15	PNP, NO	M12*	XUB2BKSNM12T
Miniature Plastic	Diffuse	1	PNP, NO	M8*	XUM5APCNM8
	Polarised reflex	5	PNP, NO	M8*	XUM9APCNM8
	Receiver thought-beam	15	PNP, NO	M8*	XUM2APCNM8R
	Transmitter thought-beam	15	PNP, NO	M8*	XUM2AKCNM8T
Compact 50x50	Diffuse	1	PNP, NO	M12*	XUK5APANM12
	Polarised reflex	5	PNP, NO	M12*	XUK9APANM12
	Reflex	7	PNP, NO	M12*	XUK1APANM12
	Receiver thought-beam	30	PNP, NO	M12*	XUK2APANM12R
	Transmitter thought-beam	30	PNP, NO	M12*	XUK2AKSNM12T
Compact 92x71	Diffuse	2.1	PNP, NO	M12*	XUX5APANM12
	Polarised reflex	11	PNP, NO	M12*	XUX9APANM12
	Reflex	14	PNP, NO	M12*	XUX1APANM12
	Receiver thought-beam	40	PNP, NO	M12*	XUX2APANM12R
	Transmitter thought-beam	40	PNP, NO	M12*	XUX0AKSAM12T

*Version available with 2m of cable instead of M12 connector, just change in the Part No suffix (M12 or M8) to (L2) to get reference

Fork Sensors

Type	Mode	Sensing Range (mm)	Output	Connection Method	Part No.
Fork sensor	Through-beam	80	PNP, NO	M8*	XUVR0608PANM8
		50	PNP, NO	M8*	XUVR0605PANM8
		120	PNP, NO	M8*	XUVR1212PANM8

Accessories

Pre-Wired Connector

Mounting	Connection Method	Cable Length	Part No.
Straight	M8 - 3 pin	2	XZCP0941L2
Elbowed	M8 - 3 pin	2	XZCP1041L2
Straight	M12 - 4 pin	2	XZCP1141L2
Elbowed	M12 - 4 pin	2	XZCP1241L2
Straight	M12 - 4 pin	5	XZCP1141L5
Elbowed	M12 - 4 pin	5	XZCP1241L5
Straight	M12 - 4 pin	10	XZCP1141L10
Elbowed	M12 - 4 pin	10	XZCP1241L10

Ancillaries

Type	Size	Part No.
Reflector	24x21 for short distance	XUZC24
	50x50	XUZC50
	80mm diameter	XUZC80
	100x100 for long distance	XUZC100
Fixing bracket with ball Joint	M18 plastic	XUZA218
	M18 stainless steel	XUZA118
Fixing bracket	XUM miniature	XUZAM02
	XUK compact 50x50	XUZA51
	XUK compact 92x71	XUZX2000

LS TITAN Series

Safety function by positive opening of contacts to IEC/EN 60 947-5-1

Basic Switch without Actuator

Type	Part No.
Narrow version	Standard action Snap action
	LS-S11
	LS-S11S

Actuators

Type	Part No.
Roller plunger	LS-XP
Spring-rod actuator	LS-XS
Roller lever	LS-XL
Angled roller lever	LS-XLA
Rotary lever	LS-XRL
Adjustable roller lever	LS-XRLA
Actuating rod	LS-XRR



Osiswitch® Universal, Osiconcept®

Miniature design, metal, type XCM D, Pre-cabled

XCM D Plunger Type

Type of head	Plunger (fixing by the body)				Plunger (fixing by the head)		
Type of Operator	Metal end plunger	Metal end plunger with elastomer boot	Steel roller plunger	Retractable steel roller lever plunger	M12 with metal end plunger	M16 with metal end plunger with elastomer boot	M12 with steel roller plunger

References

2-pole N/C + N/O snap action	XCM D2110L1	XCM D2111L1	XCM D2102L1	XCM D2124L1	XCM D21F0L1	XCM D21G1L1	XCM D21F2L1

2-pole N/C + N/O break before make, slow break	XCM D2510L1	XCM D2511L1	XCM D2502L1	XCM D2524L1	XCM D25F0L1	XCM D25G1L1	XCM D25F2L1

XCM D Rotary Type

Type of head	Rotary (fixing by the body)				Multi-directional
Type of Operator	Thermoplastic roller lever	Steel roller lever	Roller lever with ball bearing mounted roller	Variable length thermoplastic roller lever	"Cat's whisker" (1)

References

2-pole N/C + N/O snap action	XCM D2115L1	XCM D2116L1	XCM D2117L1	XCM D2145L1	XCM D2106L1

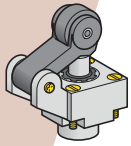
2-pole N/C + N/O break before make, slow break	XCM D2515L1	XCM D2516L1	XCM D2517L1	XCM D2545L1	XCM D2506L1

(1) Value taken with actuation by moving part at 100 mm from the fixings.



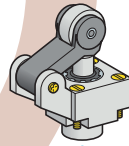
Osiswitch® Classic

Metal, conforming to CENELEC EN 50041, type XCK J
 Fixed body
 Adaptable sub-assemblies: standard bodies



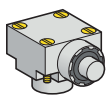
Thermoplastic roller lever plunger, 1 direction of actuation

ZCK E21 →



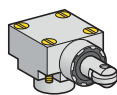
Steel roller lever plunger, 1 direction of actuation

ZCK E23 →



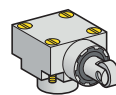
Side metal plunger

ZCK E63 →



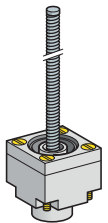
Side steel roller plunger, horizontal (1)

ZCK E64 →



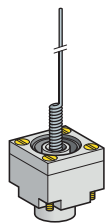
Side steel roller plunger, vertical (1)

ZCK E65 →



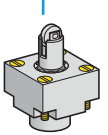
Spring rod

ZCK E08



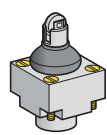
"Cat's whisker"

ZCK E06



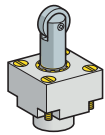
End reinforced steel roller plunger

ZCK E67 →



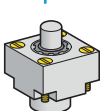
End steel roller plunger with protective boot

ZCK E629 →



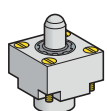
End steel roller plunger

ZCK E62 →



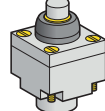
End metal plunger

ZCK E61 →



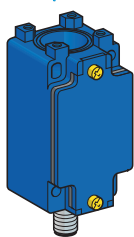
End steel ball bearing plunger

ZCK E66 →

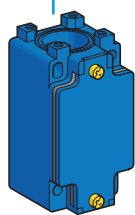


End metal plunger with protective boot

ZCK E619 →

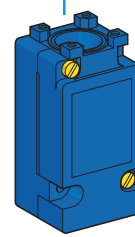


Body with 2-pole contact, fixed, 1 step, M12 connector (2)
ZCK J1D, J5D, J6D, J7D →
ZCK J8D



Body with contact, cable entry for Pg 13, fixed, 1 step (2) (3)
ZCK JD3,
ZCK J1, J5, J6, J7, J9 →

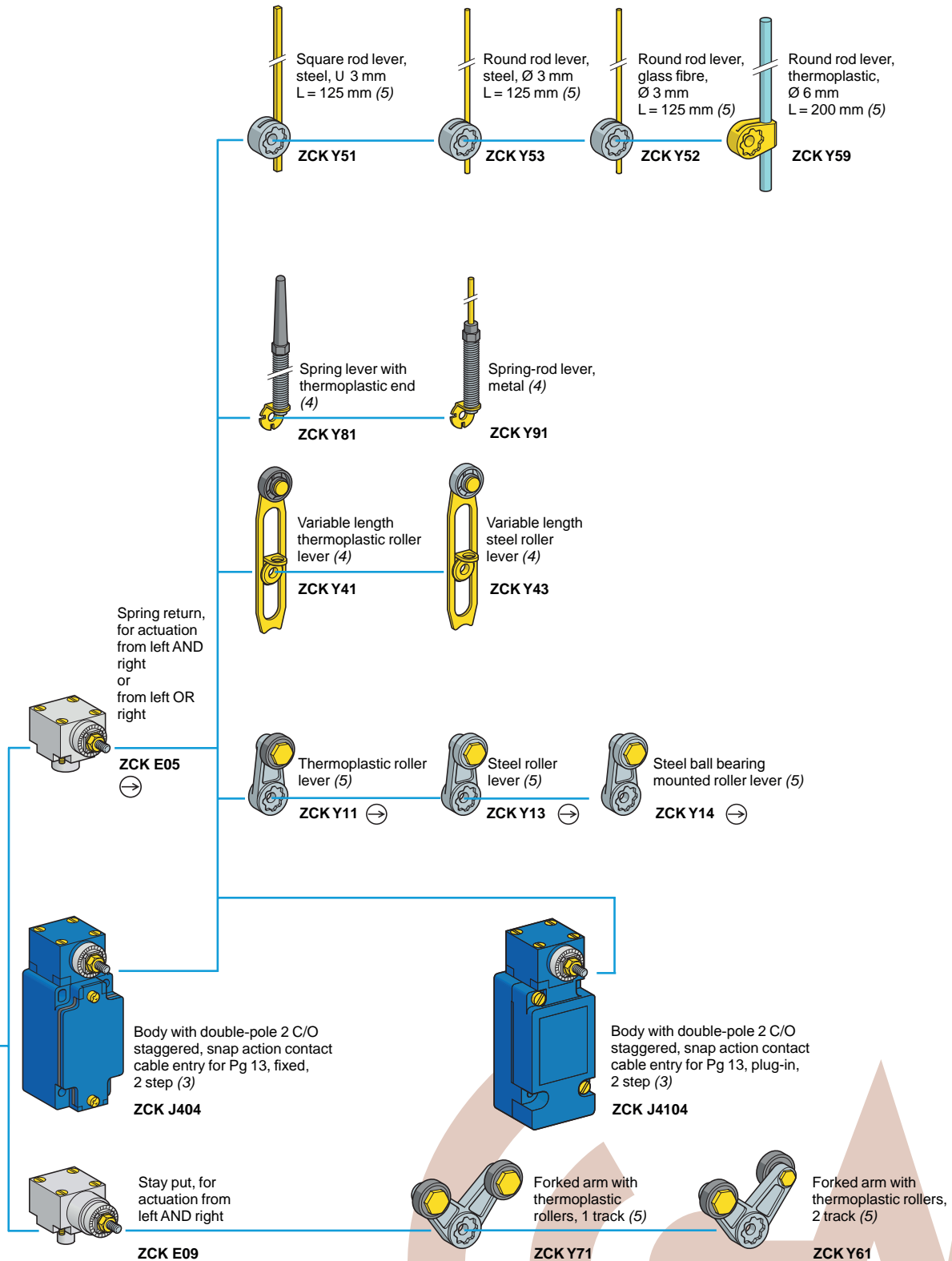
Body with contact, cable entry for Pg 13, fixed, 1 step (2) (3)
ZCK J2, J8
 Body with contact, cable entry for Pg 13, fixed, 2 step (2) (3)
ZCK J4



Body with contact, cable entry for Pg 13, plug-in, 1 or 2 step (2) (3)
ZCK J11, J21, J41

Fixed bodies with 2-pole contact

Type	With contact block	Positive operation	Cable entry	Part No.
1 Step	N/C + N/O snap action	⊖	ISO M20 x 1.5	ZCK J1H29
	2 C/O simultaneous, snap action	-		ZCK J2H29
	N/C + N/O break before make, slow break	⊖		ZCK J5H29
	N/C + N/C break before make, slow break	⊖		ZCK J6H29
	N/C + N/C simultaneous, slow break	⊖		ZCK J7H29
	N/O + N/O simultaneous, slow break	-		ZCK J8H29
	N/C + N/C snap action	⊖		ZCK J9H29
2 Step	2 C/O staggered, snap action	-	ZCK J4H29	



⊖ : head assuring positive opening operation.
 (4) Adjustable throughout 360° in 5° steps, or in 90° steps by reversing the notched washer.
 (5) Adjustable throughout 360° in 5° steps, or in 45° steps by reversing the lever mounting.

9

SAFETY PRODUCTS

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Craig & Derricott	9.12
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Light Guards

Omron	9.13
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AZ 16ZVK

Safety switch with separate actuator

- Thermoplastic enclosure
- Double insulated
- Large wiring compartment
- Multiple coding
- High level of contact reliability with low voltages and currents
- Slotted holes for adjustment, circular holes for location
- 3 cable entries M16 x 1.5
- LED version available

Ambient conditions

Environmental temperature: Min. - 30°C
Max. + 80°C

Protection class: IP67 to IEC/EN 60529

Ordering Selection

AZ 16-(1)ZV(2)K-(3)-(4)-(5)

- | | | |
|------------|-------------|--|
| (1) | without | 1 Normally open contact (NO)/1 Opener (NC) |
| | 02 | 2 Opener (NC) |
| | 03 | 3 Opener (NC) |
| | 12 | 1 Normally open contact (NO)/2 Opener (NC) |
| (2) | without | Ejection force |
| | R | Latching force 30 N |
| (3) | G24 | with LED (only available for version with 1NO and 1NC contact) |
| | without | Cable entry M16 |
| (4) | M20 | Cable entry M20 |
| | ST | Connector M12, 4-pole, bottom |
| | STL | Connector M12, 4-pole, left |
| | STR | Connector M12, 4-pole, right |
| (5) | 2254 | Latching Force 5 N |
| | 1762 | Front Mounting |
| | 1637 | Gold-plated contacts |

SCHMERSAL
Safe solutions for your industry



System Components

Description	Part No.
Actuators	
	1083036 - AZ 15/16-B1
For play-free interlocking of light guards suitable for retrofitting	1092711 - AZ 15/16-B1-1747
For play-free interlocking of light guards suitable for retrofitting	
The magnetic latch can be easily fitted in any actuating plane	1093553 - AZ 15/16-B1-1747
	1108276 - AZ 15/16-B1-2024
For protection against the ingress of course dirt including slot sealing plug	1108278 - AZ 15/16-B1-2024
For interlocking of light to medium-weight guards	1111079 - AZ 15/16-B1-2053
For interlocking of light to medium-weight guards with ball latch	1111081 - AZ 15/16-B1-2053
For interlocking of light, unguided guards	1126793 - AZ 15/16-B1-2177
For interlocking of light, unguided guards with centring guard	1126794 - AZ 15/16-B1-2177
Damp vibration on guard device	1137408 - AZ 15/16-B1-2245
For very small actuating radii in line with the plane of the actuator	1095558 - AZ 15/16-B2
For very small actuating radii in line with the plane of the actuator	
Suitable for retrofitting for play-free interlocking of light guards	1096091 - AZ 15/16-B2-1747
For very small actuating radii in line with the plane of the actuator	
Suitable for retrofitting for play-free interlocking of light guards	1096089 - AZ 15/16-B2-1747
The magnetic latch can be easily fitted in any actuating plane	with magnetic latch
For very small actuating radii at 90° to the plane of the actuator	1095550 - AZ 15/16-B3
For very small actuating radii at 90° to the plane of the actuator	
Suitable for retrofitting for play-free interlocking of light guards	1096090 - AZ 15/16-B3-1747
The magnetic latch can be easily fitted in any actuating plane	with magnetic latch
For very small actuating radii at 90° to the plane of the actuator	
Suitable for retrofitting for play-free interlocking of light guards	1096092 - AZ 15/16-B3-1747
For very small actuating radii in line or at 90° to the plane of the actuator	1137434 - AZ 15/16-B6



AZ 17

Solenoid interlock

- Thermoplastic enclosure
- Small body
- 8 actuating planes
- 30 x 60 x 30mm
- Multiple coding
- Long life
- Double-insulated
- High level of contact reliability with low voltages and currents
- Not sensitive to dirty conditions by virtue of patented roller system
- Cable gland M16

Ambient conditions

Protection class: IP67 to IEC/EN 60529

Ordering Selection

AZ 17-(1)Z(2)K-(3)-(4)-(5)

- (1) 11 1 Normally open contact (NO)/1 Opener (NC)
- 02 2 Opener (NC)
- (2) without Latching force 5 N
- R Latching force 30 N
- (3) without Cable entry M16
- 2243 Front cable entry
- 2243-1 Rear cable entry
- ST Connector M12, 4 Pole
- (4) 1637 Gold plated contacts
- (5) 5M 5M Cable Length
- 6M 6M Cable Length

System Components

Description	Part No.
Actuators	
Suitable for sliding doors	1122893 - AZ 17/170-B1
Damps vibration on guard device	1137406 - AZ 17/170-B1-2245
Suitable for hinged guards (front mounting)	1122895 - AZ 17/170-B5
For very small actuating radii, the direction of actuation can be selected by applicable insertion of the insert	1126060 - AZ 17-B6
Suitable for sliding doors	1139788 - AZ 17/170-B11
Suitable for hinged guards (front mounting)	1139789 - AZ 17/170-B15



AZM 161

Solenoid interlock

- Thermoplastic enclosure
- Double-insulated
- Interlock with protection against incorrect locking.
- 130 x 90 x 30mm
- 6 Contacts
- Long life
- Large wiring compartment
- Manual release
- Cable entries 4 M 16 x 1.5

Ambient conditions

Environmental temperature: Min. - 25°C
Max. + 60°C

Protection class: IP67 to IEC/EN 60529

Operating modes

- Sliding safety guard
- Removable guard
- Hinged safety guard

Ordering Selection

AZM 161 (1)-(2)K(3)-(4)-(5)-(6)(7)

- (1) SK Screw Connection
- CC Cage Clamps
- ST Male Connector M12, 8- & 4-Poles
(only for Us: 24V AC/DC)
- (2) 12/12 2 Normally open contact (NO / 4 Opener (NC)
- 12/11 2 Normally open contact (NO / 3 Opener (NC)
(Plug-in connection)
- (3) without Latching force 5 N
- R Latching force 30 N
- (4) without Power to unlock
- A Power to lock
- (5) without Manual release lateral
- ED Manual release cover-side
- EU Manual release rear
- T Emergency exit lateral
- TD Emergency exit cover-side
- TU Emergency exit rear
- N Emergency release
- (6) 024 Us: 24V AC/DC
- 110/230 Us: 110/230V AC
- (7) G with LED (only for Us: 24V AC/DC)

System Components

Description	Part No.
Actuators	
	1145117 - AZM 161-B1
	1144416 - AZM 161-B1E
	1171859 - AZM 161-B1ES
	1175431 - AZM 161-B1F
	1171125 - AZM 161-B1S
With ball latch	1173089 - AZM 161-B1-2053
With magnetic latch	1164100 - AZM 161-B1-1747
	1178199 - AZM 161-B1-2024
	1176642 - AZM 161-B1-2177
With centring guide	For very small actuating radii 1174113 - AZM 161-B6-2177
	1170375 - AZM 161-B6S
For very small actuating radii	1144420 - AZM 161-B6

AZM 170

Solenoid Interlock

- Thermoplastic enclosure
- Double-insulated
- Compact design
- 90 x 84 x 30mm
- 1 cable entry N20 x 1.5
- Interlock with protection against incorrect locking
- Long life
- High holding force
- IDC method of termination
- Manual release

Ordering Selection

AZM 170 (1)-(2)Z(3)K(4)-(5)-(6)(7)

- | | | |
|-----|------------------------------|---|
| (1) | without SK | IDC method of termination
Screw connection |
| (2) | 11
02
12/0.0 | 1 Normally open contact (NO)/1 Opener (NC)
2 Opener (NC)
1 Normally open contact (NO)/1 Opener (NC) / - |
| (3) | without R
I | Latching force 5 N
Latching force 30 N
Individual coding |
| (4) | without A | Power to unlock
Power to lock |
| (5) | without ST
ST-2431 | Connector gland
Connector M12 x 1
Connector M12 x 1, individual solenoid monitor |
| (6) | 24VAC/DC
110VAC
230VAC | Us: 24V AC/DC
Us: 110V AC
Us: 230V AC |
| (7) | without 2197
1637 | Manual release
Manual release from side (power to unlock)
Gold-plated contacts |

Ambient conditions

Environmental temperature: Min. - 25°C
Max. + 60°C
Protection class: IP67 to IEC/EN 60529

Operating Modes

- Sliding safety guard
- Removable guard
- Hinged safety guard

Ordering Selection

AZM 170ST-(1)Z(2)K(3)-(4)-(5)-024
AZM 170SK-(1)Z(2)K(3)-(4)-(5)-024

- | | | |
|-----|-------------------------|---|
| (1) | 11/11
11/02 | 1 Normally open contact (NO)/1 Opener (NC)/
1 Normally open contact (NO)/1 Opener (NC)
1 Normally open contact (NO)/1 Opener (NC)/
2 Opener (NC) |
| (1) | 12/00
12/11 | 1 Normally open contact (NO)/2 Opener(NC)/-
1 Normally open contact (NO)/2 Opener (NC)/
1 Normally open contact (NO)/1 Opener (NC) |
| | 12/02
02/01
02/10 | 1 Normally open contact (NO)/2 Opener(NC)/
2 Opener(NC)
2 Opener(NC), - / 1 Opener (NC), -
2 Opener(NC), - / 1 Normally open contact (NC), - |
| (2) | without R | Latching force 5 N
Latching force 30 N |
| (3) | without A | Power to unlock
Power to lock |
| (4) | without 1637 | Cable gland
Gold-plated contacts |
| (5) | 2197 | Manual release from side (power to unlock) |

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System Components

Description	Part No.
Actuators	
Particularly suitable for sliding doors	1122893 - AZ 17/170-B1
Damps vibration on guard device	1137406 - AZ 17/170-B1-2245
Suitable for hinged guards (front mounting)	1122895 - AZ 17/170-B5
Suitable for sliding doors	1139788 - AZ 17/170-B11
Suitable for hinged guards (front mounting)	1139789 - AZ 17/170-B15
For very small actuating radii 1123391	1123391 - AZM 170-B6
The direction of actuation can be selected by applicable insertion of the insert	
Accessories	
Centring guide for AZ 17 and AZM 170	1208493 - AZM 170-B



BNS 33

Safety sensors

- Thermoplastic enclosure
- Concealed mounting possible
- Insensitive to transverse misalignment
- 88 x 25 x 13mm
- Long life
- no mechanical wear
- Insensitive to soiling
- AS-Interface safety at work available

Ambient conditions

Environmental temperature: Min. -25°C
Max. +70°C
Protection class: IP67 to IEC/EN 60529

System Components

Description	Part No.
Actuators	
Particularly suitable for sliding doors	1122893 - AZ 17/170-B1
Damps vibration on guard device	1137406 - AZ 17/170-B1-2245
Accessories	
Centring guide for AZ 17 and AZM 170	1208493 - AZM 170-B

Ordering Selection

BNS 33(1)Z(2)-(3)-(4)

- (1) 02 2 Opener (NC)
11 1 Normally open contact (NO)/1 Opener (NC)
12 1 Normally open contact (NO)/2 Opener (NC)
- (2) without G without LED switching conditions display with LED switching conditions display
- (3) without ST with cable with Connector M8
- (4) without 2187 Manual release from side (power to unlock)
2187-70 Individual contact outlet with LED
2237 Actuation from cable direction



BNS 260

Safety sensors

- Thermoplastic enclosure
- Small body
- Concealed mounting possible
- 26 x 36 x 13mm
- Long life
- No mechanical wear
- Insensitive to soiling
- Insensitive to transverse misalignment

Ambient conditions

Environmental temperature: Min. -25°C
Max. +70°C
Storage/transport temperature: Min. -25°C
Max. +70°C
Protection class: IP67

System Components

Description	Part No.
Actuators	
Actuator and sensor on a mounting level	1184395 - BPS 260-1
Actuator 90° attached to the sensor	1184396 - BPS 260-2
Connector	
For BNS 33, BNS 36, enables the interconnection and the connection of BNS 260 (with 2 NC) safety sensors to a common safety monitoring module	1194060 - BNS-Y-02
Accessories	
To mount the magnetic safety sensor and actuator on ferromagnetic material	1184643 - SPACER BNS 260

Ordering Selection

BNS 260-(1)Z(2)Z(3)-(4)-(5)

- (1) 11 1 Normally open contact (NO)/1 Opener (NC)
02 2 Opener (NC)
- (2) without /01 without diagnostic output 1 Opener (NC)
- (3) without G without LED switching conditions display with LED switching conditions display
- (4) without ST Pre-wired cable with Connector
- (5) L Door hinge on left-hand side
R Door hinge on right-hand side

Preventa XCSDM Coded Magnetic Switches

- Actuation face-to-face, side-to-side and face-to-side
- Compact version - 2 contacts
- Standard version - 3 contacts
- Coded magnet technology- switch cannot be totally defeated by a single magnet
- Certified safety solution when used with 2NC compact and 2NC+1NO standard versions need XPSAF safety relays
- Tolerant of up to 6mm misalignment
- Optional LED indication

Technical specification

Conformity standards:	IEC 947-1, EN 547-5-1 & EN 547-5-3 EN 60204-1, EN 1088, BG Approval	Contact Rating:	100mA@ 24V DC
		Degree of protection:	IP67
		Operating temperature:	-25°C to +85°C
Safety contacts:		Dimensions:	
Compacts -	1 NO+1NC or 2NC	Compacts -	16x51x7mm
Standard -	2NC+1NO or 2NO+1NC	Standard -	25x88x13mm
		Safety Data:	B10 = 10 million operations B10D = 50 million operations

Compact Magnetic Switches - 2m Integrated Cable

Contact Configuration	Type	Part No.
1NO+1NC 24V DC	without LED	XCSDMC5902
	with LED	XCSDMC5912
2NC 24V DC	without LED	XCSDMC7902
	with LED	XCSDMC7912

Standard Magnetic Switches - 2m Integrated Cable

Contact Configuration	Type	Part No.
2NO+1NC 24V DC	without LED	XCSDMP5002
	with LED	XCSDMP5012
2NC+1NO 24V DC	without LED	XCSDMP7002
	with LED	XCSDMP7012

Coded Magnetic Safety Switch with Built-in Safety Module

Safety Category, Performance Level/SIL	Type	Part No.
CAT 3, PL d/SIL 2	2m lead	XCSDM379102
	5m lead	XCSDM379105
	10m lead	XCSDM379110
	M12 connector	XCSDM3791M12
CAT 4, PL e/SIL 3	2m lead	XCSDM480102
	5m lead	XCSDM480105
	10m lead	XCSDM480110
	M12 connector	XCSDM4801M12

Accessories

Spare magnet for XCSDM3 and XCSDM4	XCSDMT
Pre-wired connector 10m PUR FEM CON	XZCP29P12L10
Pre-wired connector 2m PUR FEM CON M12	XZCP29P12L2
Pre-wired connector 5m PUR FEM CON M12	XZCP29P12L5

Schneider
Electric



Safety Switches

Guardmaster Trojan 5 Series

Description	Part No.
M20 Interlock 2NC/1NO	440K-T11090
M20 Interlock c/w flexible actuator	440K-T11110

Guardmaster Lifeline 4 Series

Description	Part No.
LRS-4 M20 Rope switch	440E-L13042
LRTS 5m Installation kit	440E-A13079
LRTS 15m Installation kit	440E-A13081

Ferrogard

Description	Part No.
FRS-2 2 2m wired 1NC/1NO	440N-G02002
GS 2 EX Stainless steel 3M 1NC	440N-H02047
FRS-6 1NC 250V AC 2A 4m PVC cable	440N-G02028
FRS-6 1NC 24V DC 1A 2m PVC cable	440N-G02044

Rotacam Switch

Description	Part No.
HS2 M20 3 Pole rotacam 2NC/1NO hinge switch	440H-R03074

Guardmaster[®]





SRB 100DR

Safety control modules for special applications/safety relay module for double reset

- Safety relay module for double reset
- Suitable for signal processing of potential-free outputs, e.g. command devices
- 1 safety contact, STOP 0

Operating Modes

- Emergency-stop buttons
- Guard systems
- Pull-wire emergency stop switches

Ambient conditions

Environmental temperature:	Min. -25°C Max. +45°C
Storage/transport temperature:	Min. -25°C Max. +70°C
Protection class-Enclosure:	IP40
Protection class-Terminals:	IP20
Protection class-Clearance:	IP54

SRB 100DR Series

Voltage	Part No.
24V AC/DC	1196816 - SRB 100DR

SRB 301LC

Guard door monitors and safety control modules for emergency stop Applications / monitoring of electromechanical switchgear

- 3 Safety contacts, STOP 0
- 1 signalling output
- Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks

Operating Modes

- Emergency stop buttons
- Guard systems
- Pull-wire emergency stop switches

Ambient conditions

Environmental temperature:	Min. -25°C Max. +45°C
Storage/transport temperature:	Min. -40°C Max. +85°C
Protection class-Enclosure:	IP40
Protection class-Terminals:	IP20
Protection class-Clearance:	IP54

SRB 301LC Series

Voltage	Part No.
24V AC/DC	1165472 - SRB 301LC

SRB 301MC

Guard door monitors and safety control modules emergency stop applications/monitoring of electromechanical switchgear

- Fit for signal evaluation of outputs of safety magnetic switches
- 3 Safety contacts, STOP 0
- 1 signalling output
- Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks

Operating Modes

- Emergency stop button
- Guard systems
- Pull-wire emergency stop switches
- Safety light curtain
- Safety sensor

Ambient conditions

Environmental temperature:	Min. -25°C Max. +60°C
Storage/transport temperature:	Min. -40°C Max. +85°C
Protection class-Enclosure:	IP40
Protection class-Terminals:	IP20
Protection class-Clearance:	IP54

SRB 301MC Series

Voltage	Part No.
24V AC/DC	1193471 - SRB 301MC-24V

SRB 301ST

Guard door monitors and safety control modules for emergency stop applications/monitoring of electromechanical switchgear

- Suitable for signal processing of potential-free outputs, e.g. emergency stop command devices, position switches and solenoid interlocks
- Suitable for signal processing of outputs connected to potentials (AOPDs), e.g. safety light grids/curtains
- Fit for signal evaluation of outputs of safety magnetic switches
- 3 Safety contacts, STOP 0
- 1 signalling output

Operating Modes

- Emergency stop buttons
- Guard systems
- Pull-wire emergency stop switches
- Safety light curtain
- Safety sensor

Ambient conditions

Environmental temperature:	Min. -25°C Max. +60°C
Storage/transport temperature:	Min. -40°C Max. +85°C
Protection class-Enclosure:	IP40
Protection class-Terminals:	IP20
Protection class-Clearance:	IP54

SRB 301ST Series

Voltage	Part No.
24V AC/DC	SRB 301ST

Preventa XPS Safety Relays

- Normally open safety relay outputs
- Normally closed contacts and/or Solid state outputs for signalling e.g. to PLCs, beacons etc.
- Suitable for Performance Levels (PL) within EN ISO13849-1, and Safety Integrity Levels (SIL) within EN 62061
- TUV, CSA, UL, CCC

Technical Specification

Conformity standards:	EN 60204-1, EN 13850, EN ISO 13849-1, EN 62061, EN 60204-1	Output:	AC15 C300: Inrush 1800VA
Fuse protection:	Internal, electronic	Breaking capacity:	Maintained 180VA
Operating temperature:	-10°C to +55°C	Output fuse protection:	DC13 24V/1.5A -L/R = 50ms 6A fast acting, 4A gG

Preventa XPS Features

Type	Outputs			Safety Category Acc. to EN ISO 13849-1	Performance Level (PL) Acc. to EN ISO 13849-1	Safety Integrity Level (SIL) Acc. to EN 62061	LED Indicators	Dimensions (mm)		
	Safety No	Signalling NC	Solid State (signalling)					Depth	Height	Width
XPS AC	3	-	1	3	d	2	2	111	99	22.5
XPS AF	3	-	-	4	e	3	3	111	99	22.5
XPS AK	3	1	4	4	e	3	4	114	99	45
XPS AR	7	2	4	4	e	3	4	114	99	90
XPS ATE	3 Instant +3 Delay 2 Instant	-	4	4, 3	e, d	3, 2	4	114	99	45
XPS AV	+3 Delay	-	4	4, 3	e, d	3, 2	11	114	99	45
XPS VNE	1 +1INC	-	2	3	d	2	4	114	99	45
XPS DMB	2	-	2	4	e	3	3	111	99	22.5
XPS DME	2	-	2	4	e	3	15	111	99	45
XPS BF	2	-	2	4	e	3	3	111	99	22.5

Preventa Safety Relays

Functionality		Voltage	Part No.
Emergency stop	Switch monitoring	24V AC/DC	XPSAC5121
		115V AC	XPSAC3421
		230V AC	XPSAC3721
Emergency stop	Switch/light curtain monitoring	24V AC/DC	XPSAF5130
		24V AC/DC	XPSAF5130
Emergency stop	Switch/sensing mats/light curtain monitoring	24V AC/DC	XPSAK31144
		110V AC/24V DC	XPSAK36144
		230V AC/24V DC	XPSAK37144
Monitoring of two-hand control stations (e.g. XY2SB devices)		24V DC	XPSBF1132
Emergency stop	For zero speed detection of AC/DC motors	24V DC	XPSVNE1142P
		24V AC/DC	XPSATE5110P
Emergency stop	Guard switch monitoring with 0-30 sec time delay Stop category 0 (instantaneous) and stop category 1 time delay outputs	230V AC	XPSATE3710P
		24V DC	XPSAV11113
Coded magnetic switch enabling	Up to 2 pairs (e.g. XCSDMC/DMP/DMR)	24V DC	XPSDMB1132
		24V DC	XPSDME1132
Emergency stop	Guard switch/light curtain monitoring	24V AC/DC	XPSAR31144
		115V AC/24V DC	XPSAR35144
		230V AC/24V DC	XPSAR37144



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PNOZsigma safety relays

Technical specification	PNOZs1	PNOZs2	PNOZs3	PNOZs4	PNOZs5	PNOZs6
Input channels	1	1	1 & 2	2	2	2
Safety outputs	2 NO	3 NO	2 NO	3 NO	2 NO	3 NO
Safety outputs (timed)	-	-	-	-	2 NO	-
Time delay range	-	-	-	-	0-300 secs	-
Auxiliary outputs	-	1 NC	-	1 NC	-	1 NC
Semi conductor outputs	1	1	1	1	1	1
Input options						
Emergency stop	•	•	•	•	•	-
Safety gate switch	•	•	•	•	•	-
Light curtain	-	-	•	•	•	-
Two-hand control	-	-	-	-	-	•
Reset	Manual	Manual/monitored	Monitored	Manual/automatic		Manual
Start	Automatic	Automatic	Start-up test	Start-up test	Start-up test	-
Supply voltage	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC
Universal power supply	-	-	-	48-240V AC/DC	48-240V AC/DC	-
External fast fuse rating	4A	4A	4A	6A/10A	6A	6A
Connections	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in
Housing width (mm)	12.5	17.5	17.5	22.5	22.5	22.5
PFH ₀	2 x 10 ⁻⁷	2.5 x 10 ⁻⁹	2.31 x 10 ⁻⁹	2.31 x 10 ⁻⁹	2.31 x 10 ⁻⁹	2.62 x 10 ⁻⁹
PFH ₀ (delayed)	-	-	-	-	2.14 x 10 ⁻⁹	-
Safety category	Cat 2	Cat 2	Cat 4	Cat 4	Cat 4	EN574, Typ III C
Performance level	PLd	PLd	PLe	PLe	PLe	PLe
SIL claim	SIL CL2	SIL CL3	SIL CL3	SIL CL3	SIL CL3	SIL CL3

• Can be connected

Screw Terminals

Description	Ident No	Part No.
PNOZs1	750101	PNOZS124VDC
PNOZs2	750102	PNOZS224VDC
PNOZs3	750103	PNOZS324VDC
PNOZs4	750104	PNOZS424VDC
PNOZs4, universal voltage	750134	PNOZS4/48-240VAC/DC
PNOZs5	750105	PNOZS524VDC
PNOZs5, universal voltage	750135	PNOZS5/48-240VAC/DC
PNOZs6	750106	PNOZS624VDC

Spring-loaded Terminals

Description	Ident No	Part No.
PNOZs1	751101	PNOZS1C24VDC
PNOZs2	751102	PNOZS2C24VDC
PNOZs3	751103	PNOZS3C24VDC
PNOZs4	751104	PNOZS4C24VDC
PNOZs4, universal voltage	-	-
PNOZs5	751105	PNOZS5C24VDC
PNOZs5, universal voltage	-	-
PNOZs6	751106	PNOZS6C24VDC

To increase safety outputs use PNOZsigma expander modules on next page.

PNOZsigma contact expander modules

Technical specification	PNOZs7	PNOZs7.1	PNOZs7.2	PNOZs8	PNOZs9	PNOZs10	PNOZs11	PNOZs22
Safety outputs	4 NO	3 NO	4 NO	2 NO	3 NO	4 NO	8 NO	2 x 3 NO
Safety outputs (timed)	-	-	-	-	•	-	-	-
Time delay range	-	-	-	-	0-300 secs	-	-	-
Auxiliary outputs	1 NC	-	1 NC	-	1 NC	1 NC	1 NC	2 NC
Semi conductor outputs	1	1	1	1	-	-	-	-
Compatible relays								
PNOZelog	•	•	•	•	•	•	•	-
PNOZmulti	•	•	•	•	•	•	•	-
PNOZsigma	-	-	-	-	-	-	-	•
PNOZmm0.1p	-	-	-	-	-	-	-	•
PNOZmm0.2p	-	-	-	-	-	-	-	•
PNOZ X	•	•	•	•	•	•	•	•
Supply voltage	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC
External fast fuse rating	6A	6A	6A	4A	6A	10A	10A	6A
Connections	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in	Plug-in
Housing width (mm)	17.5	17.5	17.5	12.5	17.5	45	45	22.5
PFH _b	2.31 x 10 ⁻⁹	2.31 x 10 ⁻⁹	2.31 x 10 ⁻⁹	2 x 10 ⁻⁷	2.34 x 10 ⁻⁹	2.31 x 10 ⁻⁹	2.31 x 10 ⁻⁹	2.31 x 10 ⁻⁹
Safety category*	Cat 4	Cat 4	Cat 4	Cat 2	Cat 4	Cat 4	Cat 4	Cat 4
Performance level*	PLe	PLe	PLe	PLe	PLe	PLe	PLe	PLe
SIL claim*	SIL CL3	SIL CL3	SIL CL3	SIL CL2	SIL CL3	SIL CL3	SIL CL3	SIL CL3

• Can be connected

*The category that can be achieved depends on the category of the base unit. The contact expander module may not exceed this.

Screw Terminals

Description	Ident No	Part No.
PNOZs7	750107	PNOZS724VDC
PNOZs7.1	750167	PNOZS7124VDC
PNOZs7.2	750177	PNOZS7224VDC
PNOZs8	750108	PNOZS824VDC
PNOZs9	750109	PNOZS924VDC
PNOZs10	750110	PNOZS1024VDC
PNOZs11	750111	PNOZS1124VDC
PNOZs22	750132	PNOZS2224VDC

Spring-loaded Terminals

Description	Ident No	Part No.
PNOZs7	751107	PNOZS7C24VDC
PNOZs7.1	751167	PNOZS71C24VDC
PNOZs7.2	751177	PNOZS72C24VDC
PNOZs8	751108	PNOZS8C24VDC
PNOZs9	751109	PNOZS9C24VDC
PNOZs10	751110	PNOZS10C24VDC
PNOZs11	751111	PNOZS11C24VDC
PNOZs22	751132	PNOZS22C24VDC

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Powering Business Worldwide



Signal Towers

Plug together light/audible signal towers. Easily user configured using selectable links in each module to provide up to 5 independently switched sections in each tower. Quick and easy to assemble. IP66 as standard.

SL7 Series Light Modules

Voltage	Colour	Continuous Light	Flashing Light	Strobe Light
		Part No.	Part No.	Part No.
24V DC	Blue	SL7-L24-B	SL7-BL24-B	SL7-FL24-B
	Green	SL7-L24-G	SL7-BL24-G	SL7-FL24-G
	Red	SL7-L24-R	SL7-BL24-R	SL7-FL24-R
	White	SL7-L24-W	SL7-BL24-W	SL7-FL24-W
	Yellow	SL7-L24-Y	SL7-BL24-Y	SL7-FL24-Y
230V AC	Blue	SL7-L230-B	SL7-BL230-B	SL7-FL230-B
	Green	SL7-L230-G	SL7-BL230-G	SL7-FL230-G
	Red	SL7-L230-R	SL7-BL230-R	SL7-FL230-R
	White	SL7-L230-W	SL7-BL230-W	SL7-FL230-W
	Yellow	SL7-L230-Y	SL7-BL230-Y	SL7-FL230-Y

SL7 Series Sounders

Voltage	Part No.
24V DC	SL7-AP24
230V AC	SL7-AP230

SL7 Series Base + Stand

Height (mm)	Part No.
100	SL7-CB-100
250	SL7-CB-250
400	SL7-CB-400
800	SL7-CB-800

SL7 Series Wall Bracket

Description	Part No.
One-sided base with bracket spring-loaded terminals	SL7-CB-FW



Harmony Beacons

Description	Part No.	Insert Colour
Base unit & cover	Side or bottom cable entry	XVBC21
Base unit & cover with AS-i connection	Bottom cable entry	XVBC21B
LED Unit	24V AC/DC - permanent light	XVBC2B <input type="checkbox"/>
LED Unit	230V AC - permanent light	XVBC2M <input type="checkbox"/>
Sounder unit	12..48V AC/DC - Adjustable 70..90dB	XVBC9B
	120..230V AC - Adjustable 70..90dB	XVBC9M
100mm Black aluminium metal tube + foot mount		XVBZ02
Flashing light LED	24V AC/DC	XVBC5B <input type="checkbox"/>
	230V AC	XVBC5M <input type="checkbox"/>
Flashing discharge tube	24V AC/DC	XVBC6B <input type="checkbox"/>
	230V AC	XVBC6M <input type="checkbox"/>

Part No. Completion
When ordering complete the Part No. by adding the following:-

Beacons	Colour	Code
	Green	3
	Red	4
	Amber	5
	Blue	6
	Clear	7



With the i-switch range comes an important safety feature which prevents the enclosure cover being removed when the device has been padlocked in the 'Off' position. When combined with the excellent on-load breaking capacity of the i-switch family this feature ensures that the term 'Safety Switch' is fully satisfied.



i-Switch Range (20A - 63A)

- Features**
- IP65 Protection

Moulded Plastic

Poles	Rating A	Part No.
2	25	SDP252
3	25	SDP253
4 (3P +N)	25	SDP253N
6	20	SDP256
2	40	SDP402
3	40	SDP402
4 (3P +N)	40	SDP403N
6	40	SDP406
2	63	SDP632
3	63	SDP633
4 (3P +N)	63	SDP633N

Steel

2	25	SDMG252
3	25	SDMG253
2	40	SDMG402
3	40	SDMG403
2	63	SDMG632
3	63	SDMG633

Stainless Steel

2	25	SDS252
3	25	SDS253
2	40	SDS402
3	40	SDS403
2	63	SDS632
3	63	SDS633

We supply the complete Craig & Derricott i-Switch range, contact your local sales office for details.



We supply the complete Craig & Derricott i-Switch Range. Contact your local sales office for details.



ATEX Zone 22 (category 3D) non-conductive dust range



The Craig & Derricott i-Push range of assembled 'Emergency STOP' stations is extensive and offers the user the widest range of options, which include:

- Moulded or die-cast stayput actuators
- Surface or flush mounting
- Enclosure materials - Polycarbonate, polyester, die-cast aluminium and stainless steel
- Flap cover operated actuators (padlockable to prevent unauthorised reset)
- Multi-contact options



i-Push Range

- Features**
- IP65 Protection
 - Continuous thermal current (Ith) 10A
 - Yellow/Black insulated enclosure with 2 knock-outs

Moulded Plastic

Type	Characteristic	Contacts		Part No.
		NO	NC	
Emergency-Stop with position indicator (supplied with 2 keys)	Key reset	1	1	EMS/K/PS/CP
Emergency-Stop with shrouded actuator to prevent accidental operation with position indicator	Twist to reset	1	1	EMS/TS/PS/CP
Emergency-Stop with position indicator	Twist to reset	1	1	EMS/T/PS/CP

GRABWIRE SWITCHES

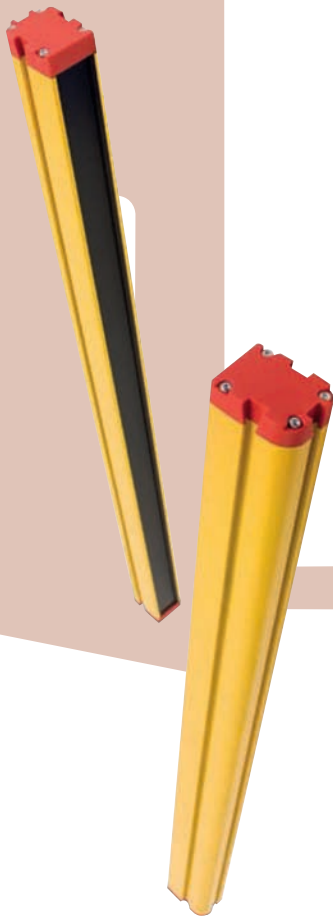
The GW range is designed for indoor or outdoor applications with a span between switches of 100M (max.). All items operate using a 'taut wire' system which is pulled to initiate a 'STOP' function.

The grab wire switches are sold individually and the only other component required to complete an installation is a 'Pull Wire' Kit.

These are sold in various lengths and contain the pull wire all parts required to make-off the wire at both ends and sufficient eyebolts to support the wire at 2M intervals.

Contact your local sales office for details.





Multi-beam, Finger- & Hand Protection Safety Sensor

The F3S-TGR-CL multi-beam, finger- and hand protection safety sensors are available in Type 2 (PL c) and Type 4 (PL e) with integrated safety control functions selectable via built-in dip-switches.

- Type 2 or type 4 acc. EN61496-1
- PL c or PL e acc. ISO13849
- All models with dip-switch setup for external device monitoring, interlock function, range setting (short & long range) and optical or wired coding
- Advanced models with pre-reset function, T-, L- or X- muting function & muting lamp integrated

Multi-beam models

- Max. operating range 12m in active/passive
- Max. operating range 50m in active/active
- Selectable muting mode (timeout or infinite muting) in advanced models

Finger- or hand protection models (14, 35 or 70mm resolution)

- Max. operating range 6m in 14mm resolution
- Max. operating range 14m in 35 or 70mm resolution
- Selectable muting mode (timeout muting), blanking and single / double brake function in advanced models

Model number structure

Multi-beam safety sensors

F3S-TGR-CL □ □ - K □ □ - □ - □

1 2 3 4 5 6

- Type
 - Type 2
 - Type 4
- Feature set
 - Advanced
 - Basic
- Number of optical axes
 - 2 optical axes
 - 3 optical axes
 - 4 optical axes
- System
 - Active/active system
 - Active/passive system
- Protective height [mm]
 - 500, 800, 900, 1,200
- Additional functions
 - Standard
 - LD: Long distance (only active/active systems)

Finger & hand protection safety sensors

F3S-TGR-CL □ □ - □ □ - □

1 2 3 4 5

- Type
 - Type 2
 - Type 4
- Feature set
 - Advanced
 - Basic
- Resolution
 - 014: Finger protection
 - 035: Hand protection
 - 070: Foot protection (only slave versions)
- Protective height [mm]
 - 150, 300, 450, 600, 750, 900, 1,050, 1,200, 1,350, 1,500, 1,650, 1,800, 1,950, 2,100, 2,250, (2,400, only standalone versions)
- Version
 - Standard
 - Master
 - Slave

Specifications

Item	F3S-TGR-CL2_-0__	F3S-TGR-CL4_-0__
Sensor type	Type 2	Type 4
Protective height	500mm, 800mm, 900mm or 1,200mm	
Operating range:	F3S-TGR-CL__-K_ 0.5 to 20m or 20 to 40m (Dip switch option) F3S-TGR-CL__-K_-LD 25 to 50m F3S-TGR-CL__-K2C-500 0.5 to 12m F3S-TGR-CL__-K3C-800 0.5 to 8m F3S-TGR-CL__-K4C-_____ 0.5 to 7m	
Beam pitch	F3S-TGR-CL__-K2_-500: 2 beams, 500mm F3S-TGR-CL__-K3_-800: 3 beams, 400mm F3S-TGR-CL__-K4_-900: 4 beams, 300mm F3S-TGR-CL__-K4_-1200: 4 beams, 400 mm	
Effective aperture angle (EAA)	Within ±5° for the emitter and receiver at a detection distance of at least 3m according to IEC 61496-2	
Light source	Infrared LED (880nm), power dissipation <3mW, Class 1 per EN 60825-1	
Supply voltage	24V DC ±20%, according EN 60204-1 able to cover a drop of voltage of at least 20ms	
OSSD	2 PNP transistor outputs, load current 2 × 250mA max	
Test functions	Self test (after power ON and during operation)	

F3S-TGR-CL2_-K_ (Type 2)

Basic feature set*1			
System	Sensing distance	Detection capability	Part No.
Active/passive	0.5m ... 12m	500	F3S-TGR-CL2B-K2C-500
	0.5m ... 8m	400	F3S-TGR-CL2B-K3C-800
	0.5m ... 7m	300	F3S-TGR-CL2B-K4C-900
Active/active	0.5m ... 40m	400	F3S-TGR-CL2B-K4C-1200
		500	F3S-TGR-CL2B-K2-500
		400	F3S-TGR-CL2B-K3-800
		300	F3S-TGR-CL2B-K4-900
		400	F3S-TGR-CL2B-K4-1200
Active/active, long distance	25m ... 50m	500	F3S-TGR-CL2B-K2-500-LD
		400	F3S-TGR-CL2B-K3-800-LD
		300	F3S-TGR-CL2B-K4-900-LD
		400	F3S-TGR-CL2B-K4-1200-LD
		400	F3S-TGR-CL2B-K4-1200-LD

*1 Basic feature set: Manual/automatic restart, coding
 *2 Advanced feature set: Basic + Muting + integrated Muting lamp + Pre-reset

F3S-TGR-CL4_-K_ (Type 4)

Basic feature set*1			
System	Sensing distance	Detection capability	Part No.
Active/passive	0.5m ... 12m	500	F3S-TGR-CL4B-K2C-500
	0.5m ... 8m	400	F3S-TGR-CL4B-K3C-800
	0.5m ... 7m	300	F3S-TGR-CL4B-K4C-900
Active/active	0.5m ... 40m	400	F3S-TGR-CL4B-K4C-1200
		500	F3S-TGR-CL4B-K2-500
		400	F3S-TGR-CL4B-K3-800
		300	F3S-TGR-CL4B-K4-900
		400	F3S-TGR-CL4B-K4-1200
Active/active, long distance	25m ... 50m	500	F3S-TGR-CL4B-K2-500-LD
		400	F3S-TGR-CL4B-K3-800-LD
		300	F3S-TGR-CL4B-K4-900-LD
		400	F3S-TGR-CL4B-K4-1200-LD
		400	F3S-TGR-CL4B-K4-1200-LD

*1 Basic feature set: Manual/automatic restart, coding
 *2 Advanced feature set: Basic + Muting + integrated Muting lamp + Pre-reset

Accessories

Receiver Cables (M12-8pin, shielded, flying leads)

Shape	Description	Part No.	
	Sensor connector with open cable end M12-8pin, outer shielding layer	Receiver cable, 2m length	Y92E-M12PURSH8S2M-L
		Receiver cable, 5m length	Y92E-M12PURSH8S5M-L
		Receiver cable, 10m length	Y92E-M12PURSH8S10M-L
		Receiver cable, 25m length	Y92E-M12PURSH8S25M-L

Transmitter Cables (M12-4pin, shielded, flying leads)

	Sensor connector with open cable end M12-4pin, outer shielding layer	Transmitter cable, 2m length	Y92E-M12PURSH4S2M-L
		Transmitter cable, 5m length	Y92E-M12PURSH4S5M-L
		Transmitter cable, 10m length	Y92E-M12PURSH4S10M-L
		Transmitter cable, 25m length	Y92E-M12PURSH4S25M-L

Mounting brackets

	Mounting bracket	Mounting bracket x 1, SLC mounting screws x 1 set	F39-TGR-ST-SB
	Adjustable bracket	Adjustable bracket x 1, Bracket mounting screws x 1 set	F39-TGR-ST-ADJ



10

TECHNICAL DATA



Contents

Manufacturer	Page No
Technical Data	
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Utilisation Chart	10.3
Motor Rating Chart	10.3
Fuse Rating Chart	10.4

Ingress Protection

Degrees of protection against solid foreign objects (1st characteristic numeral)			Degrees of protection against ingress of water (2nd characteristic numeral)		
Digit	Protection		Digit	Protection	
0		No Protection	0		No Protection
1		Protected against foreign objects of 50mm Ø and greater. Protected against access to hazardous parts with the back of a hand.	1		Protected against vertically falling water drops. Vertically falling drops shall have no harmful effects.
2		Protected against solid foreign objects of 12.5mm Ø and greater. Protected against access to hazardous parts with a finger.	2		Protected against vertically falling water drops when enclosure tilted up to 15°. Vertically falling drops shall have no harmful effects when the enclosure is tilted at an angle up to 15° on either side of the vertical.
3		Protected against solid foreign objects of 2.5mm Ø and greater. Protected against access to hazardous parts with a tool.	3		Protected against spraying water. Water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effects.
4		Protected against solid foreign objects of 1mm Ø and greater. Protected against access to hazardous parts with a wire.	4		Protected against splashing water. Water projected in splashes against the enclosure from any direction shall have no harmful effects.
5		Dust-protected. Ingress of dust is not totally prevented, but dust shall not penetrate in a quality to interfere with satisfactory operation of the apparatus or to impair safety.	5		Protected against water jets. Water projected in jets against the enclosure from any direction shall have no harmful effects.
6		Dust-tight. No ingress of dust.	6		Protected against powerful water jets. Water projected in powerful jets against the enclosure from any direction shall have no harmful effects.
			7		Protected against the effects of temporary immersion in water. Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardised conditions of pressure and time.
			8		Protected against the effects of continuous immersion in water. Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions which shall be agreed between manufacturer and user but which are more severe than for numeral 7.

Utilisation Chart / Motor Rating Chart

Utilisation Categories	
A contactor duty is characterised by the utilisation category	
Utilisation categories for contactor relays according to IEC 337-1	
Alternating current	
AC 11	Making and breaking for normal and occasional utilisation conditions
Direct current	
DC 11	Making and breaking for normal and occasional utilisation conditions
Utilisation categories for contactor relays according to IEC 947-5-1	
Alternating current	
AC-12	Control of resistive loads and solid state loads with isolation by opto couplers
AC-13	Control of solid state loads with transformer isolation
AC-14	Control of small electromagnetic loads (< 72VA)
AC-15	Control of small electromagnetic loads (> 72VA)
Direct current	
DC-12	Control of resistive loads and solid state loads with isolation by opto couplers.
DC-13	Control of electromagnets.
DC-14	Control of electromagnetic loads having economy resistors in circuit
Utilisation categories for contactors according to IEC 158-1	
Alternating current	
AC 1	Non-inductive or slightly inductive loads, resistance furnaces
AC 3	Slip-ring motors: starting, plugging
AC 3	Squirrel-cage motors: starting, switching-off motors during running
AC 4	Squirrel-cage motors: starting, plugging, inching
Direct current	
DC 1	Non-inductive or slightly inductive loads, resistance furnaces
DC 2	Shunt motors: starting, switching-off motors during running
DC 3	Shunt motors: starting, plugging, inching
DC 4	Series motors: starting, switching-off motors during running.
DC 5	Series motors: starting, plugging, inching
Utilisation categories for contactors according to IEC 947-4-1	
Alternating current	
AC 1	Non-inductive or slightly inductive loads, resistance furnaces
AC 3	Slip-ring motors: starting, switching off
AC 3	Squirrel-cage motors: starting, switching-off motors during running
AC 4	Squirrel-cage motors: starting, plugging, inching
AC 5a	Switching of discharge lamp controls
AC 5b	Switching of incandescent lamps
AC 6a	Switching of transformers
AC 6b	Switching of capacitor banks
AC 8a	Hermetic refrigerant compressor motor control with manual resetting of overload releases
AC 8b	Hermetic refrigerant compressor motor control with automatic resetting of overload releases
Direct current	
DC 1	Non-inductive or slightly inductive loads, resistance furnaces
DC 3	Shunt motors: starting, plugging, inching. Dynamic breaking of DC motors
DC 5	Series motors: starting, plugging, inching. Dynamic breaking of DC motors
DC 6	Switching of incandescent lamps.

Motor Ratings	kW	HP	Motor Rated Current at							
			220-230V	240V	380V	415V	440V	500V	600V	660-690V
0.06	1/12	0.38	0.35	0.22	0.20	0.19	0.16	0.12		
0.09	1/8	0.55	0.50	0.33	0.30	0.28	0.24	0.21		
0.12	1/6	0.76	0.68	0.42	0.40	0.37	0.33	0.27		
0.18	1/4	1.1	1	0.64	0.60	0.55	0.46	0.40		
0.25	1/3	1.4	1.38	0.88	0.85	0.76	0.59	0.56	-	
0.37	1/2	2.1	1.93	1.22	1.15	1.06	0.85	0.77	0.7	
0.55	3/4	2.7	2.3	1.5	1.4	1.25	1.20	1.02	0.9	
0.75	1	3.3	3.1	2	2	1.67	1.48	1.22	1.1	
1.1	1.5	4.9	4.1	2.6	2.5	2.26	2.1	1.66	1.5	
1.5	2	6.2	5.6	3.5	3.5	3.03	2.6	2.22	2	
2.2	3	8.7	7.9	5	5	4.31	3.8	3.16	2.9	
2.5	3.4	9.8	8.9	5.7	5.5	4.9	4.3	3.59	3.3	
3	4	11.6	10.6	6.6	6.5	5.8	5.1	4.25	3.5	
3.7	5	14.2	13	8.2	7.5	7.1	6.2	5.2	4.4	
4	5.5	15.3	14	8.5	8.4	7.6	6.5	5.6	4.9	
5	6.8	18.9	17.2	10.5	10	9.4	8.1	6.9	6	
5.5	7.5	20.6	18.9	11.5	11	10.3	8.9	7.5	6.7	
6.5	8.8	23.7	21.8	13.8	12.5	12	10.4	8.7	8.1	
7.5	10	27.4	24.8	15.5	14	13.5	11.9	9.9	9	
8	11	28.8	26.4	16.7	15.4	14.4	12.7	10.6	9.7	
9	12.5	32	29.3	18.3	17	15.8	13.9	11.6	10.6	
11	15	39.2	35.3	22	21	19.3	16.7	14.1	13	
12.5	17	43.8	40.2	25	23	21.9	19	16.1	15	
15	20	52.6	48.2	30	28	26.3	22.5	19.3	17.5	
18.5	25	64.9	58.7	37	35	32	28.5	23.5	21	
20	27	69.3	63.4	40	37	34.6	30.6	25.4	23	
22	30	75.2	68	44	40	37.1	33	27.2	25	
25	34	84.4	77.2	50	47	42.1	38	30.9	28	
30	40	101	92.7	60	55	50.1	44	37.1	33	
37	50	124	114	72	66	61.9	54	45.4	42	
40	54	134	123	79	72	67	60	49.1	44	
45	60	150	136	85	80	73.9	64.5	54.2	49	
51	70	168	154	97	90	83.8	73.7	61.4	56	
55	75	181	166	105	96	90.3	79	66.2	60	
59	80	194	178	112	105	96.9	85.3	71.1	66	
75	100	245	226	140	135	123	106	90.3	82	
80	110	260	241	147	138	131	112	96.3	86	
90	125	292	268	170	165	146	128	107	98	
100	136	325	297	188	182	162	143	119	107	
110	150	358	327	205	200	178	156	131	118	
129	175	420	384	242	230	209	184	153	135	
132	180	425	393	245	242	214	186	157	140	
140	190	449	416	260	250	227	200	167	145	
147	200	472	432	273	260	236	207	173	152	
160	220	502	471	295	280	256	220	188	170	
180	245	578	530	333	320	289	254	212	192	
184	250	590	541	340	325	295	259	217	200	
200	270	626	589	370	340	321	278	235	215	
220	300	700	647	408	385	353	310	260	235	
250	340	803	736	460	425	401	353	295	268	
257	350	826	756	475	450	412	363	302	280	
295	400	948	868	546	500	473	416	348	320	
315	430	990	927	580	535	505	445	370	337	
355	480	1080	1010	636	580	549	483	405	366	
400	545	1250	1130	710	650	611	538	450	410	
450	610	1410	1270	800	740	688	608	508	460	
475	645	1490	1340	850	780	730	645	540	485	
500	680	1570	1420	890	830	770	680	565	510	
560	760	1750	1580	1000	920	860	760	630	570	
600	810	-	-	1080	990	920	810	680	610	
670	910	-	-	1200	1100	1030	910	760	680	

Direct-on-line starting			
Motor FLC Amp		Recommended fuse link Type gG Amp	Recommended fuse link Type gG Amp
From	to		
0	0.7	2	
0.8	1.4	4	
1.5	2.0	6	
2.1	3.0	10	
3.1	6.1	16	
6.2	9.0	20	
9.1	11.0	25	20M25
11.1	14.4	32	20M32
14.5	15.4	35	32M35
15.5	18.0	40	32M40
18.1	22.0	50	32M50
22.1	28.0	63	32M63
28.1	45.0	80	63M80
45.1	58.0	100	63M100
58.1	80.0	125	100M125
80.1	99.0	160	100M160
99.1	128.0	200	
128.1	180.0	250	200M250
180.1	216.0	315	200M315
216.1	270.0	355	315M355
270.1	328.0	400	
328.1	385.0	450	400M450
385.1	430.0	500	
430.1	500.0	560	
500.1	560.0	630	
560.1	620.0	670	630M670

Assisted starting - Star-delta, auto-transformer, etc.			
Motor FLC Amp		Recommended fuse link Type gG Amp	
From	to		
0	1.4	2	
1.5	2.1	4	
2.2	3.1	6	
3.2	5.5	10	
5.6	1.0	16	
10.1	1.4	20	
14.1	1.8	25	
18.1	22.0	32	
22.1	28.0	35	
28.1	32.0	40	
32.1	40.0	50	
40.1	5.1	63	
51.1	80.0	80	
80.1	100.0	100	
100.1	125.0	125	
125.1	160.0	160	
160.1	200.0	200	
200.1	250.0	250	
250.1	315.0	315	
315.1	355.0	355	
355.1	400.0	400	
400.1	450.0	450	
450.1	500.0	500	
500.1	560.0	560	
560.1	630.0	630	

These recommendations apply for ambient temperatures up to 35°C.

Suitable adjustments to the recommended ratings may be necessary if any of the following conditions occur singly or in combination:

- a) Starting currents in excess of the assumed ones.
- b) Long run up times due to high inertia loads.
- c) Larger number of starts per operating cycle (the recommendations allow for two starts in rapid succession and up to eight starts per hour).
- d) High enclosure temperature.