

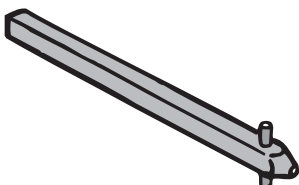
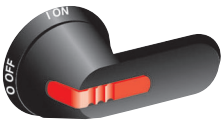
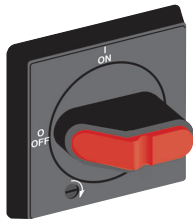
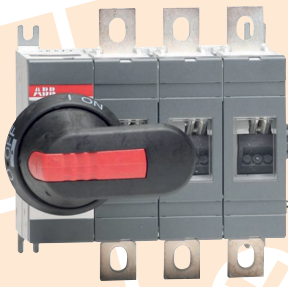
3

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 - O and ON - 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
For 12mm Shaft			For 12mm shaft		
OT315... OT1600	IP65 Black	OH65J12	OT315...OT1600	290	OX6X290
	IP65 Black	OH6125J12		360	OX6X360
	IP65 Black	OH6145J12		400	OX6X400
	IP65 Black	OH6175J12		430	OX6X430
	IP65 Black Butterfly On/Off	OH6150J12P			
	IP65 Black Butterfly On/Off	OH6200J12P			

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.

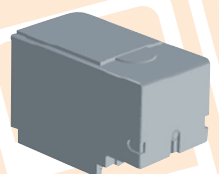
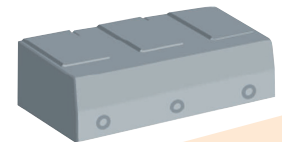
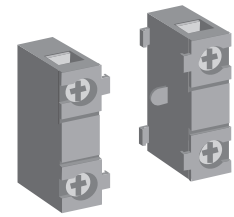
Fourth Pole

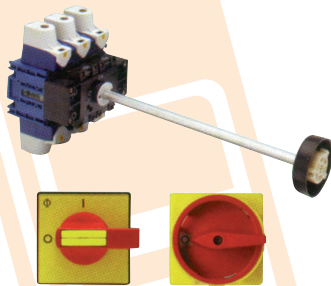
For Type	Part No.
OT16...OT40F3	OTPS40FPN1
OT63F...OT80F3	OTPS80FP
OT100...OT125F3	OTPS125FP

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 NO NC	Part No.
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
40	15	64 x 64	4		KG32B T206/GBA221 VE
			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
			6		KG100 T206/GBA221 VE
125	45	64 x 64	3		KG105 T203/GBA430 VE
			88 x 88	3	2 2 ⁽¹⁾
160	55	88 x 88	4	2 2	KG125 T204/GBA105 VE
			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
			6	T3-3-8342/V/SVB
63	37	30	3	P3-63/V/SVB
			4	P3-63/V/SVB/N
			6	T5B-3-8342/V/SVB
100	50	37	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
			6	T3-3-8342/EA/SVB
63	37	30	3	P3-63/EA/SVB
			4	P3-63/EA/SVB/N
			6	T5B-3-8342/EA/SVB
100	50	37	3	P3-100/EA/SVB
			4	P3-100/EA/SVB/N
	30	30	6	T5-3-8342/EA/SVB

Accessories

Auxiliary Contacts

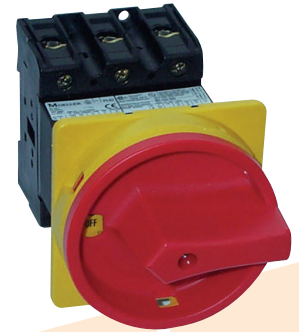
For	NO	NC	Part No.
P1...P3 Base or DIN rail mounting version	1	1	HI11-P1/P3Z
P1...P3 Door mounting version	1	1	HI11-P1/P3E

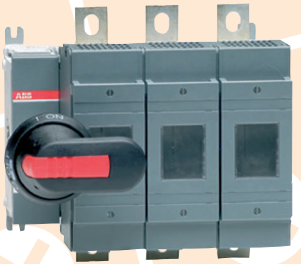
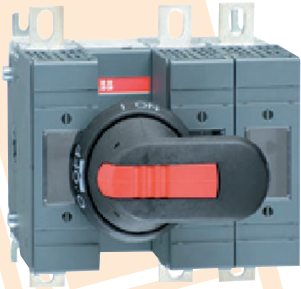
Neutral Terminal

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

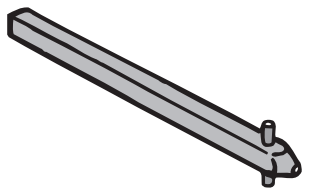
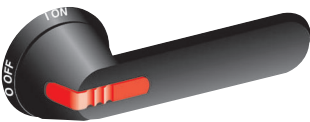
IP65, padlockable with 3 three padlocks in OFF position, door interlock in ON position (defeatable to allow authorised personnel access for inspection).

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.
			1	0A4B1C
Mini OS20...32	-	1		0A4B01
	1	-		0A4B10
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	-	0A1G10
	-	1	0A3G01
Module for auxiliary contacts screw mounting to the left hand side of the switch			0EA28

Max. 8 auxiliary contacts mountable onto the left hand side with the mounting frame 0EA28
 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	0ESAZX171
OS32...OS160G up to 16mm ² cable	OSZ1
OS32...OS160G up to 35mm ² cable	OSZ2

Fixed Neutral Terminal

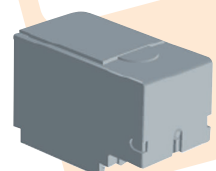
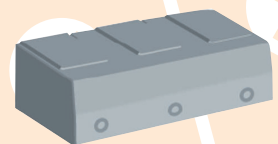
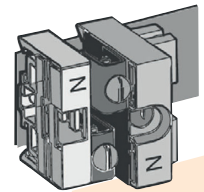
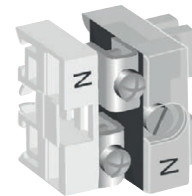
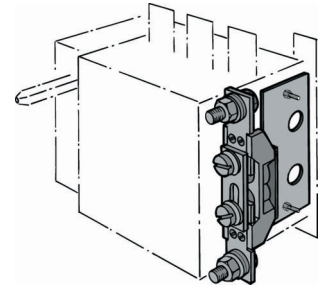
For Type	Part No.
OS200...OS250	OXN250
OS315...OS400	OXN400

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
		Short	OSS200G1S/3
	4	Long	OSS200G1L/4
		Short	OSS200G1S/4
OS250	3	Long	OSS250G1L/3
		Short	OSS250G1S/3
	4	Long	OSS250G1L/4
		Short	OSS250G1S/4
OS315...400	3	Long	OSS400G1L/3
		Short	OSS400G1S/3
	4	Long	OSS400G1L/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	0XP6X170
	210	0XP6X210
	265	0XP6X265
	290	0XP6X290
	360	0XP6X360
	400	0XP6X400
	430	0XP6X430
	500	0XP6X500





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 $\Delta n=30\text{ mA}$) 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 $\Delta n=30\text{ mA}$) 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.

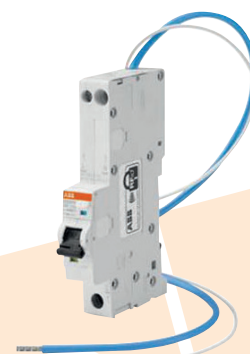
Technical Data

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





iD 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

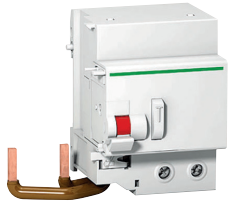
Rating Amps	Type B Part No.	Type C Part No.	Type D Part No.
63	A9N18423	A9N18467	A9N18511
80	A9N18424	A9N18468	A9N18512
100	A9N18425	A9N18469	A9N18513
125	A9N18426	A9N18470	A9N18514

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
		30	A9N18566
	3	300	A9N18567
		300*	A9N18546
		500	A9N18568
		1000*	A9N18547
		30	A9N18569
		300	A9N18570
4	300*	500	A9N18548
		500	A9N18571
		1000*	A9N18549
		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	300	30	A9N18575
			300	A9N18576
			300*	A9N18584
			500	A9N18577
			500*	A9N18585
			1000*	A9N18586
	4	300	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	
		30	A9N18594	
	3	300	300*	A9N18558
			500	A9N18596
			1000*	A9N18559
			30	A9N18597
			300	A9N18598
			300*	A9N18560
4	500	500	A9N18599	
		500	A9N18561	
		1000*	A9N18561	
		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
XT2S	50kA	160R125	125A	1SDA067019R1	1SDA067042R1
		160R160	160A	1SDA067020R1	1SDA067043R1
		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
XT3S	50kA	250R63	63A	1SDA068215R1	1SDA068222R1
		250R80	80A	1SDA068216R1	1SDA068223R1
		250R100	100A	1SDA068217R1	1SDA068224R1
		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

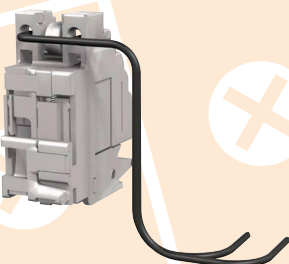
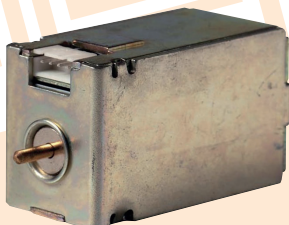
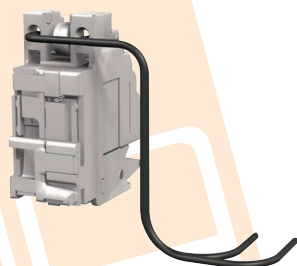
Model	Icu	Type	In	3 Pole	4 Pole
				Part No.	Part No.
T7S P-LS/I	50kA	800 PR231/P-LS/1	800A	1SDA061963R1	1SDA061973R1
			1000A	1SDA062738R1	1SDA062746R1
			1250A	1SDA062866R1	1SDA062874R1
			1600A	1SDA062994R1	1SDA063002R1

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

ABB





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

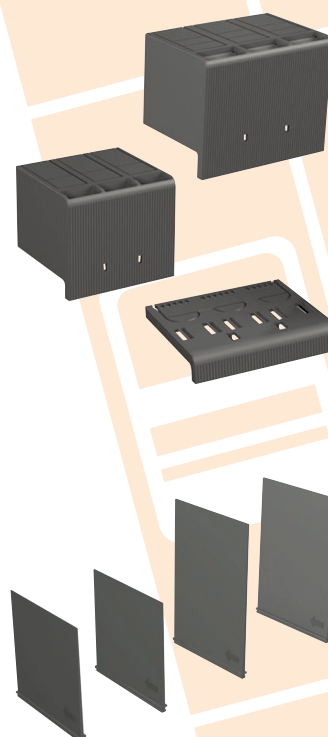
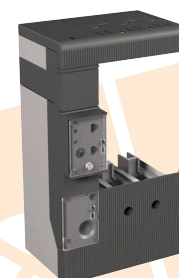
Residual Current Devices

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.
P8100 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





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-XDTVTR
		lockable on handle & switch	NZM2-XDV
		lockable on handle	NZM2-XDTV
		red-yellow, lockable	NZM2-XDVR
		red-yellow, lockable on handle	NZM2-XDTVTR

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

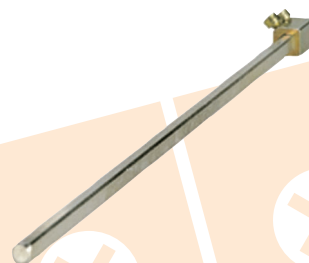
Description	Part No.
24/30V DC	NZM2-XR24-30DC
48/60V DC	NZM2-XR48-60DC
220/250V DC	NZM2-XR220-250DC
110/130V AC	NZM2-XR110-130AC
208/240V AC	NZM2-XR208-240AC

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