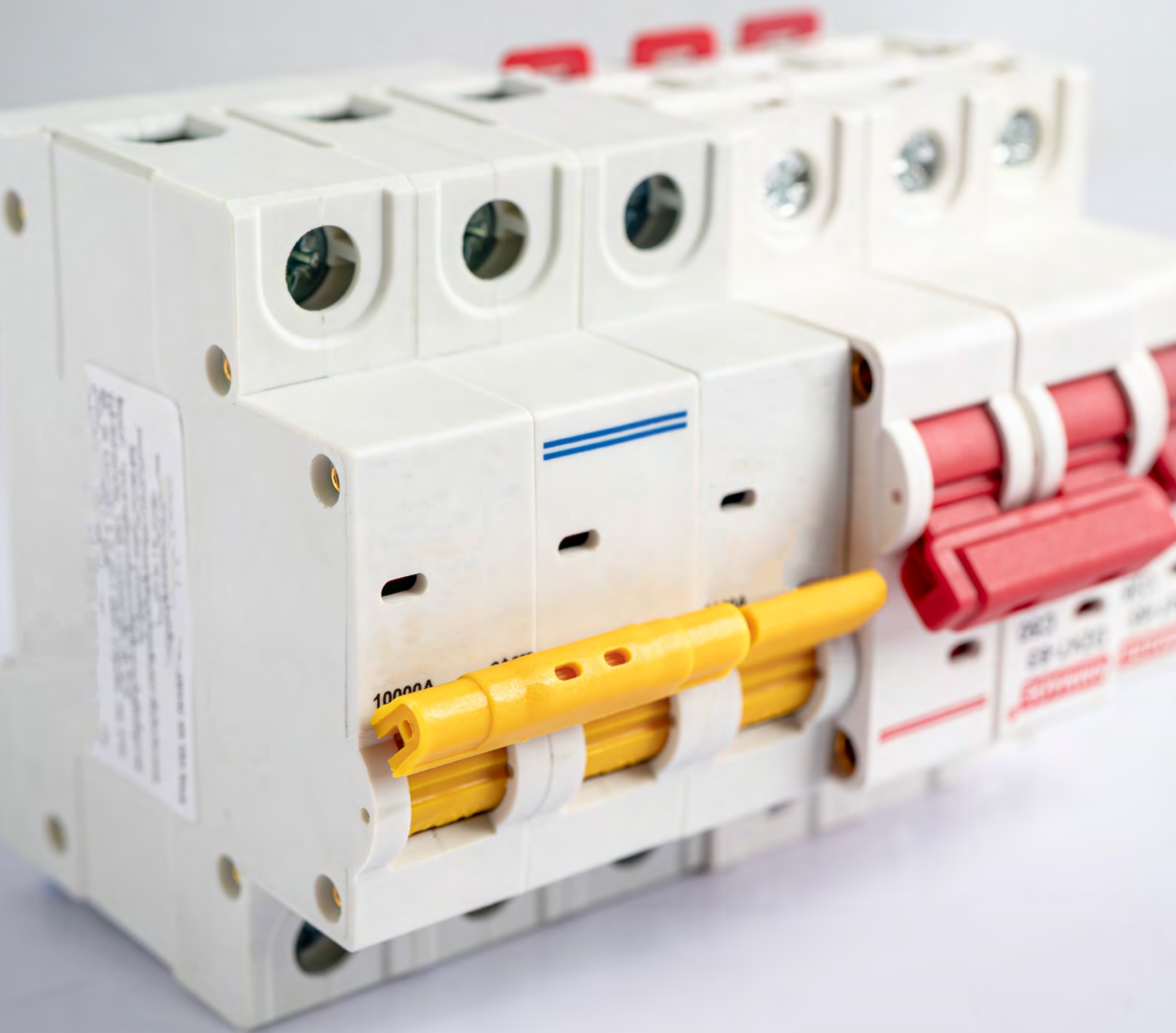




CIRCUIT BREAKERS, FUSES & SWITCHGEAR

7

Ensure the safety and reliability of your electrical systems with our range of Circuit Breakers, Fuses & Switchgear. Our products are designed to provide robust protection against overloads and short circuits, safeguarding your equipment and maintaining continuous operation. From residential to industrial applications, our solutions offer dependable performance and peace of mind.

WINBREAK1 ADJUSTABLE MCCBs

- Conforms to IEC60947-2 | Suitable for Isolation
- Range 16A-400A 3 & 4 Pole
- Breaking capacity: 25kA 35/36kA 50kA
- Trip Free mechanism
- Neutral with 100% rated current | Bounce free contact structure
- Wide range of internal & external accessories
- Standard packing includes insulating phase barrier for line side and hardware
- Cascading and Discrimination available
- Type one and Type two co-ordination available
- Ui: 750V Uimp: 8kV



CSE1M125ATM3P-100A



CSE1M125ATM4P-100A



CSE2S250ATM3P-250A



CSE3S400ATM3P-320A

Dimensions: (W x H x D)

- Frame 1: 3P - 92 x 150 x 81mm
 4P - 123 x 150 x 81mm
 Frame 2: 3P - 108 x 166 x 81mm
 4P - 143 x 166 x 81mm
 Frame 3: 3P - 150 x 260 x 110mm
 4P - 198 x 260 x 110mm

Adjustable Thermal Magnetic Moulded Case Circuit Breakers

Code 3 Pole	Code 4 Pole	Breaking Capacity Icu@415VAC	Rated Current (A)	Frame
Adjustable Overload: 80 - 100% - Adjustable Short Circuit: 5-10In, Ics = 100% Icu				
CSE1M125ATM3P-63A	CSE1M125ATM4P-63A	25KA	63 (50-63)	1
CSE1M125ATM3P-80A	CSE1M125ATM4P-80A		80 (64-80)	1
CSE1M125ATM3P-100A	CSE1M125ATM4P-100A		100 (80-100)	1
CSE1M125ATM3P-125A	CSE1M125ATM4P-125A		125 (100-125)	1
CSE2M250ATM3P-160A	CSE2M250ATM4P-160A		160 (128-160)	2
CSE2M250ATM3P-200A	CSE2M250ATM4P-200A		200 (160-200)	2
CSE2M250ATM3P-250A	CSE2M250ATM4P-250A		250 (200-250)	2
CSE3M400ATM3P-320A	CSE3M400ATM4P-320A		320 (256-320)	3
CSE3M400ATM3P-350A	CSE3M400ATM4P-350A		350 (280-350)	3
CSE3M400ATM3P-400A	CSE3M400ATM4P-400A		400 (320-400)	3
CSE1N125ATM3P-63A	CSE1N125ATM4P-63A	35KA	63 (50-63)	1
CSE1N125ATM3P-80A	CSE1N125ATM4P-80A		80 (64-80)	1
CSE1N125ATM3P-100A	CSE1N125ATM4P-100A		100 (80-100)	1
CSE1N125ATM3P-125A	CSE1N125ATM4P-125A		125 (100-125)	1
CSE2N250ATM3P-160A	CSE2N250ATM4P-160A		160 (128-160)	2
CSE2N250ATM3P-200A	CSE2N250ATM4P-200A		200 (160-200)	2
CSE2N250ATM3P-250A	CSE2N250ATM4P-250A	36KA	250 (200-250)	2
CSE3N400ATM3P-320A	CSE3N400ATM4P-320A		320 (256-320)	3
CSE3N400ATM3P-350A	CSE3N400ATM4P-350A		350 (280-350)	3
CSE3N400ATM3P-400A	CSE3N400ATM4P-400A		400 (320-400)	3
CSE3S400ATM3P-320A	CSE3S400ATM4P-320A	50KA	320 (256-320)	3
CSE3S400ATM3P-350A	CSE3S400ATM4P-350A		350 (280-350)	3
CSE3S400ATM3P-400A	CSE3S400ATM4P-400A		400 (320-400)	3

Adjustable Overload 80 - 100% - Adjustable Short Circuit 5-10In, Ics = 50% Icu

CSE1S125FMU3P-16A	CSE1S125FMU4P-16A	50KA	16 (13-16)	1
CSE1S125FMU3P-20A	CSE1S125FMU4P-20A		20 (16-20)	1
CSE1S125FMU3P-25A	CSE1S125FMU4P-25A		25 (20-25)	1
CSE1S125FMU3P-32A	CSE1S125FMU4P-32A		32 (26-32)	1
CSE1S125FMU3P-40A	CSE1S125FMU4P-40A		40 (32-40)	1
CSE1S125FMU3P-50A	CSE1S125FMU4P-50A		50 (40-50)	1
CSE1S125ATM3P-63A	CSE1S125ATM4P-63A		63 (50-63)	1
CSE1S125ATM3P-80A	CSE1S125ATM4P-80A		80 (64-80)	1
CSE1S125ATM3P-100A	CSE1S125ATM4P-100A		100 (80-100)	1
CSE1S125ATM3P-125A	CSE1S125ATM4P-125A		125 (100-125)	1

WINBREAK1 ADJUSTABLE MCCBs & ACCESSORIES

- IEC60947-2 Certified • Suitable for Isolation
- Adjustable over current $I_r = 0.4 - 1$ times I_n
- Adjustable short circuit 2 - 12 times I_r
- Built-in groundfault protection 20 - 100% of I_n
- Adjustable neutral overload protection: 50 - 100% of I_r
- Adjustable current imbalance protection available: 30-70% of I_r
- Provision of thermal memory: On/Off
- Communication: RS485 Modbus Protocol
- View last trip information I LCD: Display
- Ui: 750V, Uimp: 8kV

Dimensions: (W x H x D)

Frame 1: 3P - 92 x 150 x 81mm
 4P - 123 x 150 x 81mm
 Frame 2: 3P - 108 x 166 x 81mm
 4P - 143 x 166 x 81mm



3 Pole - 100A



4 Pole - 40A



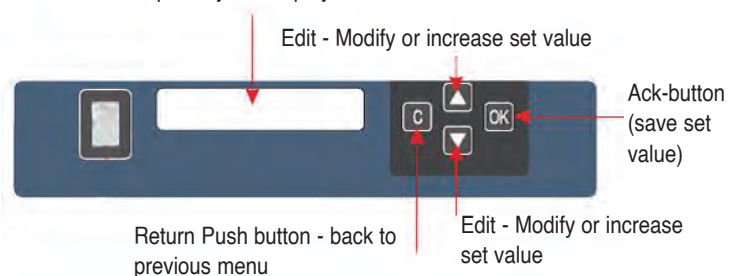
4 Pole - 63A

Adjustable Electronic - Microprocessor Release MCCBs

Code 3 Pole	Code 4 Pole	Breaking Capacity I_{cu} @ 415VAC	Rated Current (A)	Size (Frame)
CSE1N125ETM3P-40A	CSE1N125ETM4P-40A	35KA	16 - 40	1
CSE1N125ETM3P-63A	CSE1N125ETM4P-63A		25 - 63	1
CSE1N125ETM3P-100A	CSE1N125ETM4P-100A		40 - 100	1
CSE1N125ETM3P-125A	CSE1N125ETM4P-125A		50 - 125	1
CSE2N250ETM3P-160A	CSE2N250ETM4P-160A		63 - 160	2
CSE2N250ETM3P-200A	CSE2N250ETM4P-200A		80 - 200	2
CSE2N250ETM3P-250A	CSE2N250ETM4P-250A		100 - 250	2

Adjustable Overload 40-100% - Adjustable Short Circuit 2-12 I_r - ICS = 100% ICU

Liquid Crystal Display



Auxiliary & Alarm Switches

Frame	Auxiliary Switches		Alarm Switches	
	Left	Right	Left	Right
1, 2	AXW1-L	AXW1-R	ALW1-L	ALW1-R
3	AXW1-3L	AXW1-3R	ALW1-3L	ALW1-3R

Shunt & Under Voltage Trips

Frame	Shunt Trip (STW)	Under Voltage Trip
1, 2	STW1-24VDC	UVTW1-24VDC
	STW1-48VDC	UVTW1-48VDC
	STW1-110VDC	UVTW1-110VDC
	STW1-220VAC/DC	UVTW1-220VAC/DC
	STW1-415VAC	UVTW1-415VAC
3	STW1-3-24VDC	-
	STW1-3-48VDC	-
	STW1-3-110VDC	UVTW1-3-110VAC
	STW1-3-220VAC/DC	UVTW1-3-220VAC/DC
	STW1-3-415VAC	UVTW1-3-415VAC

Panel Mount Rotary Operating Handles - Padlockable

Frame	Code c/w Shaft	Code Key Lock
1 (150mm Shaft)	EHW1-125	EXTKLWB1-125AF-T1
2 (150mm Shaft)	EHW1-250	EXTKLWB1-250AF-T1
3 (200mm Shaft)	EHW1-400	EXTKLWB1-400AF-T1

Extention Bars

Frame	Code 3 Pole	Code 4 Pole	Current Rating (A)
1	CSET1033	CSET1044	Up to 63A
1	CSET1033C	CSET1044C	Up to 125A
2	CSET2533	CSET2544	Up to 250A
3	CSETETW14033	CSETETW14044	Up to 400A



CSET2533



EHW1-250

WINBREAK FIXED MCCB

- IEC 60947-2 Certified I Positive Isolation
- Trip Free Mechanism
- Standard Packaging includes phase barriers for line side and hardware
- Cascading and Discrimination available
- Type one and Type two co-ordination available
- Ui: 750V, Uimp: 8kV



CSC2N3



CSC3H3



CSC4H4



CSC5H3



CSC6S4



ASW-6A



AXWC-T



UVTC



DHC100



DHCK100



EHC100



TCS13



CSET1033C

Dimensions: (W x H x D) 3P

Frame 1: 75 x 130 x 60mm	Frame 4: 140 x 257 x 109mm
Frame 2: 90 x 155 x 60mm	Frame 5: 210 x 280 x 109mm
Frame 3: 105 x 165 x 60mm	Frame 6: 220 x 400 x 105mm

Fixed Thermal & Magnetic Moulded Case Circuit Breakers

Code 3 Pole	Code 4 Pole	Breaking Capacity Icu@415VAC	*Rated Current (A)	Frame
Fixed Overload - Fixed short circuit - Ics=100%Icu				
CSC1S3*	CSC1S4*	18kA	15,20,30,40,50 60,75,100	1
CSC2N3*	CSC2N4*	26kA	150,175,200,250	3
CSC4N3*	CSC4N4*	37kA	15,20,30,40,50,60 75,100,125	2
CSC3S3*	CSC3S4*	37kA	150,175,200,250	3
CSC4S3*	CSC4S4*	37kA	300,350,400♦	4
CSC5N3*	CSC5N4*	37kA	500,630,700, 800	5
CSC6N3*	CSC6N4*	37kA	500,630,700, 800	5
CSC3H3*	CSC3H4*	50kA	15,20,30,40,50,60, 75,100,125,	2
CSC4H3*	CSC4H4*	50kA	150,175,200,250	3
CSC5S3*	CSC5S4*	50kA	300,350,400♦	4
CSC5H3*	CSC5H4*	50kA	300,350,400♦	4
CSC6S3*	CSC6S4*	65kA	500,630,700,800	5
CSC7S3*	CSC7S4*	65kA Ics = 50% Icu	1000♦	6
CSC8S3*	CSC8S4*	65kA Ics = 50% Icu	1200♦	6
CSC5L3*	CSC5L4*	85kA	300,350,400♦	4
CSC6L3*	CSC6L4*	85kA	500,630,700,800	5
CSC7L3*	CSC7L4*	85kA	1000♦	6
CSC8L3*	CSC8L4*	85kA Ics = 50% Icu	1200♦	6

* Add Amps to Code. ♦ Spreader Bar Included

Auxiliary & Alarm Switches

Frame	Auxiliary Switches (AX)		Alarm Switches (AL)	
	Left	Right	Left	Right
1, 2, 3	AXWC-R	AXWC-T	ALWC-R	ALWC-T
4, 5	ASW-6A	ASW-6A	ALSW-6A	ALSW-6A
6	ASW-7A	ASW-7A	ALSW-7A	ALSW-7A

Shunt & Under Voltage Trips (See the Short Form Catalogue for Maximum Configurations)

Frame	Shunt Trip (SHT)	Under Voltage Trip (UVT)
1, 2, 3	STC-24VAC/DC	UVTC-24VAC/DC
	STC-48VAC/DC	UVTC-48VAC/DC
	STC-100-130VAC/DC	UVTC-100-110VAC/DC
	STC-200-250VAC/DC	UVTC-200-220VAC/DC
	STC-380-450VAC	UVTC-380-400VAC
4, 5	STC-440-550VAC	UVTC-440-480VAC
	ST-6A-24-48VAC/DC	UVT-6A-100-125VAC
	ST-6A-100-220VDC	UVT-6A-100-110VDC
	ST-6A-100-240VAC	UVT-6A-200-240VAC
6	ST-6A-380-550VAC	UVT-6A-380-400VAC
	ST-7A-200-220VAC	UVT-7A-200-220VAC

Rotary Operating Handles - Padlockable

Frame	Direct Rotary Handle	Direct Rotary Handle with Key Lock	Extended Rotary Handle + Shaft
1	DHC100	DHCK100	EHC100 (470mm)
2	DHC125	DHCK125	EHC125 (470mm)
3	DHC250	DHCK250	EHC250 (470mm)
4	N70S	-	E70U (304mm)
5	-	-	E80U (304mm)

Terminal Covers - For Line & Load

Frame	3P Code	4P Code
1	TCS13	TCS14
2	TCS23	TCS24
3	TCS33	TCS34

Extention Bars - Supplied in half sets of 3 or 4

Frame	Code 3P	Code 4P	Current Rating (A)
1, 2	CSET1033	CSET1044	Up to 60A
1, 2	CSET1033C	CSET1044C	Up to 125A
3	CSET2533	CSET2544	Up to 250A
4	CSET8033	CSET8044	Up to 800A

6KA CIRCUIT BREAKERS

Rated voltage: 240/415VAC
Thermal Magnetic Release
Rated Insulation Voltage Ui: 660V
Rated Impulse Voltage Uimp: 4kV
Integrated Label Holder
Accepts Pin / Fork Busbar
Electrical and Mechanical life:
 <32A - 30 000 operations
 >32A - 10 000 operations
Energy limiting class: ELC3
Terminal Capacity: 35mm²
Ambient working Temperature:
-25°C to 55°C
60VDC capacity for 1P, 110VDC for 2P
DIN Modules: 1M = 17,5mm



CSMBS1C1X



CSMBS2C1X



CSMBS3C1X

Tripping Characteristic: AC
Rated Voltage: 240V-2P / 415V-4P
Rated Insulation Voltage: 660V
Rated Impulse Voltage: 6kV
Terminal Capacity: 25mm²
Mechanical / Electrical Life:
20000/10000 Operations



CSRB2P25A300



CSRB4P40A100

6kA C-Curve Miniature Din Rail Circuit Breakers IP20 IEC60947-2 / VC8036

Amps	1 Pole Code 1M Wide	1P+N Code 2M Wide	2 Pole Code 2M Wide	3 Pole Code 3M Wide	4 Pole Code 4M Wide
1A	CSMBS1K1X	CSMBS1K1NX	CSMBS2K1X	CSMBS3K1X	CSMBS4K1X
2A	CSMBS1K2X	CSMBS1K2NX	CSMBS2K2X	CSMBS3K2X	CSMBS4K2X
3A	CSMBS1K3X	CSMBS1K3NX	CSMBS2K3X	CSMBS3K3X	CSMBS4K3X
4A	CSMBS1K4X	CSMBS1K4NX	CSMBS2K4X	CSMBS3K4X	CSMBS4K4X
5A	CSMBS1K5X	CSMBS1K5NX	CSMBS2K5X	CSMBS3K5X	CSMBS4K5X
6A	CSMBS1K6X	CSMBS1K6NX	CSMBS2K6X	CSMBS3K6X	CSMBS4K6X
10A	CSMBS1K10X	CSMBS1K10NX	CSMBS2K10X	CSMBS3K10X	CSMBS4K10X
16A	CSMBS1K16X	CSMBS1K16NX	CSMBS2K16X	CSMBS3K16X	CSMBS4K16X
20A	CSMBS1K20X	CSMBS1K20NX	CSMBS2K20X	CSMBS3K20X	CSMBS4K20X
25A	CSMBS1K25X	CSMBS1K25NX	CSMBS2K25X	CSMBS3K25X	CSMBS4K25X
32A	CSMBS1K32X	CSMBS1K32NX	CSMBS2K32X	CSMBS3K32X	CSMBS4K32X
40A	CSMBS1K40X	CSMBS1K40NX	CSMBS2K40X	CSMBS3K40X	CSMBS4K40X
50A	CSMBS1K50X	CSMBS1K50NX	CSMBS2K50X	CSMBS3K50X	CSMBS4K50X
63A	CSMBS1K63X	CSMBS1K63NX	CSMBS2K63X	CSMBS3K63X	CSMBS4K63X

6kA D-Curve Miniature Din Rail Circuit Breakers IP20 IEC60947-2 / VC8036

Amps	1 Pole Code 1M Wide	1P+N Code 2M Wide	2 Pole Code 2M Wide	3 Pole Code 3M Wide	4 Pole Code 4M Wide
6A	CSMBS1D6X	CSMBS1D6NX	CSMBS2D6X	CSMBS3D6X	CSMBS4D6X
10A	CSMBS1D10X	CSMBS1D10NX	CSMBS2D10X	CSMBS3D10X	CSMBS4D10X
16A	CSMBS1D16X	CSMBS1D16NX	CSMBS2D16X	CSMBS3D16X	CSMBS4D16X
20A	CSMBS1D20X	CSMBS1D20NX	CSMBS2D20X	CSMBS3D20X	CSMBS4D20X
25A	CSMBS1D25X	CSMBS1D25NX	CSMBS2D25X	CSMBS3D25X	CSMBS4D25X
32A	CSMBS1D32X	CSMBS1D32NX	CSMBS2D32X	CSMBS3D32X	CSMBS4D32X
40A	CSMBS1D40X	CSMBS1D40NX	CSMBS2D40X	CSMBS3D40X	CSMBS4D40X
50A	CSMBS1D50X	CSMBS1D50NX	CSMBS2D50X	CSMBS3D50X	CSMBS4D50X
63A	CSMBS1D63X	CSMBS1D63NX	CSMBS2D63X	CSMBS3D63X	CSMBS4D63X

6kA Residual Current Circuit Breakers (Earth Leakage Relays) Without Overload VC8035

Amps	2 Pole Code 2M Wide 240V	Leakage Current	Amps	4 Pole Code 4M Wide 415V	Leakage Current
25A	CSRB2P25A30	30mA	25A	CSRB4P25A30	30mA
32A	CSRB2P32A30	30mA	32A	CSRB4P32A30	30mA
40A	CSRB2P40A30	30mA	40A	CSRB4P40A30	30mA
63A	CSRB2P63A30	30mA	63A	CSRB4P63A30	30mA
80A	CSRB2P80A30	30mA	80A	CSRB4P80A30	30mA
100A	CSRB2P100A30	30mA	100A	CSRB4P100A30	30mA
25A	CSRB2P25A300	300mA	25A	CSRB4P25A300	300mA
32A	CSRB2P32A300	300mA	32A	CSRB4P32A300	300mA
40A	CSRB2P40A300	300mA	40A	CSRB4P40A300	300mA
63A	CSRB2P63A300	300mA	63A	CSRB4P63A300	300mA
80A	CSRB2P80A300	300mA	80A	CSRB4P80A300	300mA
100A	CSRB2P100A300	300mA	100A	CSRB4P100A300	300mA

10KA CIRCUIT BREAKERS

Rated voltage: 240/415VAC
Thermal Magnetic Release
Rated Insulation Voltage Ui: 660V
Rated Impulse Voltage Uimp: 4kV
Integrated Label Holder
Accepts Pin / Fork Busbar
Electrical and Mechanical life:
<32A - 30 000 operations
>32A - 10 000 operations
Energy limiting class: ELC3
Terminal Capacity: 35mm²
Ambient working Temperature:
-25°C to 55°C
60VDC capacity for 1P, 110VDC for 2P
DIN Modules: 1M = 17,5mm



CSMB1C6



CSMB1C10N



CSMB3C10

Tripping Characteristic: AC
Rated Voltage: 240V-2P / 415V-4P
Rated Insulation Voltage: 660V
Rated Impulse Voltage: 6kV
Terminal Capacity: 25mm²
Mechanical / Electrical Life:
20000/10000 Operations



CSRB2P40A100



CSRN4P40A100

10kA C-Curve Miniature Din Rail Circuit Breakers IP20, IEC 60947-2 / VC8036

Amps	1 Pole Code 1M Wide	1P+N Code 2M Wide	2 Pole Code 2M Wide	3 Pole Code 3M Wide	4 Pole Code 4M Wide
1A	CSMB1K1	CSMB1K1N	CSMB2K1	CSMB3K1	CSMB4K1
2A	CSMB1K2	CSMB1K2N	CSMB2K2	CSMB3K2	CSMB4K2
3A	CSMB1K3	CSMB1K3N	CSMB2K3	CSMB3K3	CSMB4K3
4A	CSMB1K4	CSMB1K4N	CSMB2K4	CSMB3K4	CSMB4K4
5A	CSMB1K5	CSMB1K5N	CSMB2K5	CSMB3K5	CSMB4K5
6A	CSMB1K6	CSMB1K6N	CSMB2K6	CSMB3K6	CSMB4K6
10A	CSMB1K10	CSMB1K10N	CSMB2K10	CSMB3K10	CSMB4K10
16A	CSMB1K16	CSMB1K16N	CSMB2K16	CSMB3K16	CSMB4K16
20A	CSMB1K20	CSMB1K20N	CSMB2K20	CSMB3K20	CSMB4K20
25A	CSMB1K25	CSMB1K25N	CSMB2K25	CSMB3K25	CSMB4K25
32A	CSMB1K32	CSMB1K32N	CSMB2K32	CSMB3K32	CSMB4K32
40A	CSMB1K40	CSMB1K40N	CSMB2K40	CSMB3K40	CSMB4K40
50A	CSMB1K50	CSMB1K50N	CSMB2K50	CSMB3K50	CSMB4K50
63A	CSMB1K63	CSMB1K63N	CSMB2K63	CSMB3K63	CSMB4K63

10kA C-Curve Miniature Din Rail Circuit Breakers IP20, IEC 60947-2 / VC8036

Amps	1 Pole Code 1,5M Wide	1P+N Code 3M Wide	2 Pole Code 3M Wide	3 Pole Code 4,5M Wide	4 Pole Code 6M Wide
80A	CSMB1H80	CSMB1H80N	CSMB2H80	CSMB3H80	CSMB4H80
100A	CSMB1H100	CSMB1H100N	CSMB2H100	CSMB3H100	CSMB4H100

10kA D-Curve Miniature Din Rail Circuit Breakers IP20, IEC 60947-2 / VC8036

Amps	1 Pole Code 1M Wide	1P+N Code 2M Wide	2 Pole Code 2M Wide	3 Pole Code 3M Wide	4 Pole Code 4M Wide
6A	CSMB1D6	CSMB1D6N	CSMB2D6	CSMB3D6	CSMB4D6
10A	CSMB1D10	CSMB1D10N	CSMB2D10	CSMB3D10	CSMB4D10
16A	CSMB1D16	CSMB1D16N	CSMB2D16	CSMB3D16	CSMB4D16
20A	CSMB1D20	CSMB1D20N	CSMB2D20	CSMB3D20	CSMB4D20
25A	CSMB1D25	CSMB1D25N	CSMB2D25	CSMB3D25	CSMB4D25
32A	CSMB1D32	CSMB1D32N	CSMB2D32	CSMB3D32	CSMB4D32
40A	CSMB1D40	CSMB1D40N	CSMB2D40	CSMB3D40	CSMB4D40
50A	CSMB1D50	CSMB1D50N	CSMB2D50	CSMB3D50	CSMB4D50
63A	CSMB1D63	CSMB1D63N	CSMB2D63	CSMB3D63	CSMB4D63

10kA D-Curve Miniature Din Rail Circuit Breakers IP20, IEC 60947-2 / VC8036

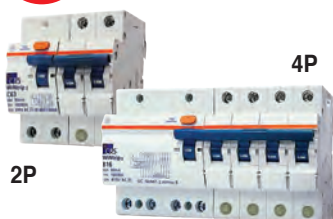
Amps	1 Pole Code 1,5M Wide	1P+N Code 3M Wide	2 Pole Code 3M Wide	3 Pole Code 4,5M Wide	4 Pole Code 6M Wide
80A	CSMB1D80	CSMB1D80N	CSMB2D80	CSMB3D80	CSMB4D80
100A	CSMB1D100	CSMB1D100N	CSMB2D100	CSMB3D100	CSMB4D100

10kA Residual Current Circuit Breakers (Earth Leakage Relays) Without Overload VC8035

Amps	2 Pole Code 2M Wide 240V	Leakage Current	Amps	4 Pole Code 4M Wide 415V	Leakage Current
25A	CSRB2P25A30-10KA	30mA	25A	CSRB4P25A30-10KA	30mA
32A	CSRB2P32A30-10KA	30mA	32A	CSRB4P32A30-10KA	30mA
40A	CSRB2P40A30-10KA	30mA	40A	CSRB4P40A30-10KA	30mA
63A	CSRB2P63A30-10KA	30mA	63A	CSRB4P63A30-10KA	30mA
80A	CSRB2P80A30-10KA	30mA	80A	CSRB4P80A30-10KA	30mA
100A	CSRB2P100A30-10KA	30mA	100A	CSRB4P100A30-10KA	30mA
25A	CSRB2P25A300-10KA	300mA	25A	CSRB4P25A300-10KA	300mA
32A	CSRB2P32A300-10KA	300mA	32A	CSRB4P32A300-10KA	300mA
40A	CSRB2P40A300-10KA	300mA	40A	CSRB4P40A300-10KA	300mA
63A	CSRB2P63A300-10KA	300mA	63A	CSRB4P63A300-10KA	300mA
80A	CSRB2P80A300-10KA	300mA	80A	CSRB4P80A300-10KA	300mA
100A	CSRB2P100A300-10KA	300mA	100A	CSRB4P100A300-10KA	300mA

NEW

10KA CIRCUIT BREAKERS



Easy conversion of a 2/4P Breaker to an Earth Leakage with overload protection suitable for use with 10kA C&S MCBS.

Add On Residual Current Devices (RCBO) - Supplied c/w MCB

2 Pole	4 Pole	Type	Current(In)	Leakage Current
CSRCB02PC32A30MA-10KA	CSRCB04PC32A30MA-10KA	AC	32A	30mA
CSRCB02PC32A100MA-10KA	CSRCB04PC32A100MA-10KA			100mA
CSRCB02PC32A300MA-10KA	CSRCB04PC32A300MA-10KA			300mA
CSRCB02PC63A30MA-10KA	CSRCB04PC63A30MA-10KA	AC	63A	30mA
CSRCB02PC63A100MA-10KA	CSRCB04PC63A100MA-10KA			100mA
CSRCB02PC63A300MA-10KA	CSRCB04PC63A300MA-10KA			300mA

DC BREAKERS

Rated Voltage 12-220VDC over one pole

Rated Insulation Voltage 660V

Ambient Working Temperature: -5°C - 55°C

Terminal Capacity: 35mm²

Rated Impulse Voltage Uimp: 4kV

Mechanical / Electrical Life:

1000 Operations



CSMBS2DC32

10kA DC Miniature DIN Rail Circuit Breakers IP20

Amps	1 Pole Code 1M Wide 12-220VDC	2 Pole 2M Wide 12-220VDC
0.5A	CSMBS1DC0.5	CSMBS2DC0.5
1A	CSMBS1DC1	CSMBS2DC1
2A	CSMBS1DC2	CSMBS2DC2
3A	CSMBS1DC3	CSMBS2DC3
4A	CSMBS1DC4	CSMBS2DC4
5A	CSMBS1DC5	CSMBS2DC5
6A	CSMBS1DC6	CSMBS2DC6
10A	CSMBS1DC10	CSMBS2DC10
16A	CSMBS1DC16	CSMBS2DC16
20A	CSMBS1DC20	CSMBS2DC20
25A	CSMBS1DC25	CSMBS2DC25
32A	CSMBS1DC32	CSMBS2DC32
40A	CSMBS1DC40	CSMBS2DC40
50A	CSMBS1DC50	CSMBS2DC50
63A	CSMBS1DC63	CSMBS2DC63

ISOLATORS

Rated insulation voltage Ui: 660V

Rated Impulse Voltage Uimp: 6kV

Electrical & Mechanical life: <32A - 30 000 operations
>32A - 10 000

Terminal Capacity: 35mm²

Integrated Label Holder

Accepts Pin / Fork Busbar



CSMB2ISO25

CSMB4ISO63

Amps	1 Pole Code 1M Wide	2 Pole Code 2M Wide	3 Pole Code 3M Wide	4 Pole Code 4M Wide
25A	CSMBS1ISO25	CSMBS2ISO25	CSMBS3ISO25	CSMBS4ISO25
40A	CSMBS1ISO40	CSMBS2ISO40	CSMBS3ISO40	CSMBS4ISO40
63A	CSMBS1ISO63	CSMBS2ISO63	CSMBS3ISO63	CSMBS4ISO63
80A	CSMBS1ISO80	CSMBS2ISO80	CSMBS3ISO80	CSMBS4ISO80
100A	CSMBS1ISO100	CSMBS2ISO100	CSMBS3ISO100	CSMBS4ISO100
125A	CSMBS1ISO125	CSMBS2ISO125	CSMBS3ISO125	CSMBS4ISO125

ACCESSORIES FOR 6 & 10kA MCB



CSMBS012SF CSMBXSF CSMALFW2

Code	Type	Voltage	Amps	Width
CSMBXSF	Auxiliary Contact Left Side 1NO or 1NC	-	6A	½M
CSMBXSF2	Auxiliary Contact Left Side 2NO or 2NC	-	6A	½M
CSMALFW2	Alarm Contact Left Side	-	1A	½M
CSMBS012SF	Shunt Trip Right Side	12VDC	-	1M
CSMBS024SF	Shunt Trip Right Side	24VDC	-	1M
CSMBS048SF	Shunt Trip Right Side	48VDC	-	1M
CSMBS110SF	Shunt Trip Right Side	110VAC	-	1M
CSMBS220SF	Shunt Trip Right Side	220VAC	-	1M

MODULAR CHANGEOVER SWITCHES

Rated Insulation Voltage U_i : 660V
 Rated Impulse Voltage U_{imp} : 4kV
 Mechanical / Electrical Life:
 15000/10000 Operations
 Terminal Capacity: 16mm²
 Front Operating with 3 Positions: 1, 0, 2
 Double Break Contacts
 Compact Design



CSCOS2P25A

Amps	2 Pole Code 2M Wide	4 Pole Code 4M Wide
25A	CSCOS2P25A	CSCOS4P25A
40A	CSCOS2P40A	CSCOS4P40A
63A	CSCOS2P63A	CSCOS4P63A

CO1CB

Modular Changeover Switches

Code	Amps AC22	No. of Poles	Width
SF2P-*	25, 40A	2P	2m
SF2P-*	63, 100, 125A	2P	4m
SF3P-*	25, 40A	3P	3m
SF3P-*	63, 100, 125A	3P	6m
SF4P-*	25, 40A	4P	4m
SF4P-*	63, 100, 125A	4P	8m

*Add amps to code: 25A, 40A, 63A, 100A, 125A



SF2P-25A/40A



SF3P-25A/40A



SF4P-25A/40A



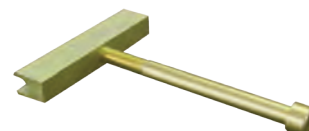
SF2P-63A/100A/125A



SF3P-63A/100A/125A



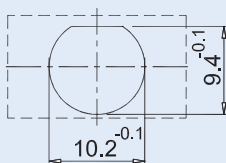
SF4P-63A/100A/125A



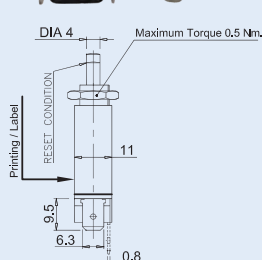
Code	Description
SFP-OH	Operating Handle for 63-125A

THERMAL CIRCUIT BREAKERS FOR EQUIPMENT

NEW

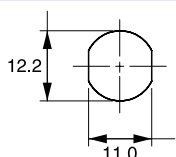


Mounting Hole

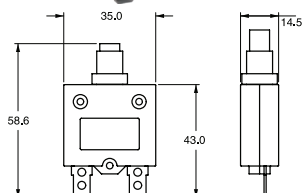


Manual Push to Reset Thermal Circuit Breakers

Code	Amps (In)	Derating Factor	
NTR11-4A	4A	5°C	In x 1.13
NTR11-5A	5A	0°C	In x 1.11
NTR11-6A	6A	10°C	In x 1.04
NTR11-7A	7A	20°C	In x 1
NTR11-8A	8A	30°C	In x 0.95
NTR11-10A	10A	40°C	In x 0.89
NTR11-12A	12A	50°C	In x 0.83
NTR11-15A	15A	60°C	In x 0.77



Mounting Hole



Manual Push to Reset Thermal Circuit Breakers

Code	Amps (In)	Derating Factor	
A-0709U 4A	4A	0°C	In x 1.5
A-0709U 5A	5A	10°C	In x 1.3
A-0709U 6A	6A	15°C	In x 1.2
A-0709U 7A	7A	20°C	In x 1.1
A-0709U 8A	8A	25°C	In x 1
A-0709U 10A	10A	35°C	In x 0.85
A-0709U 12A	12A	40°C	In x 0.8
A-0709U 15A	15A	60°C	In x 0.6

125-250VAC/32VDC rated. 2.5kA@32VDC

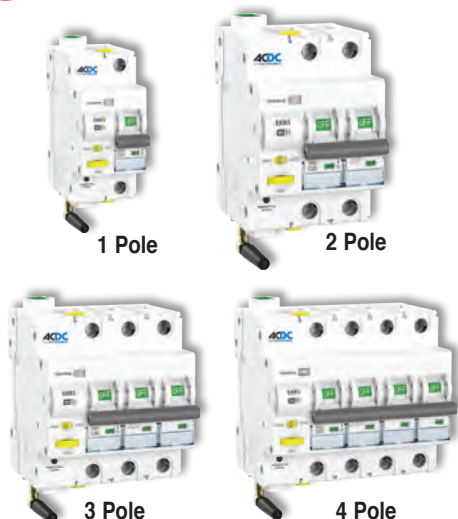
Calibration of rated current @ 25°C:100%, Continuous

150%, Trip within 60 mins

200%, Trip within 40 secs

NEW

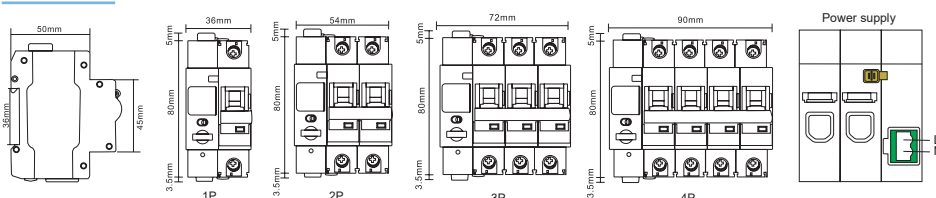
SMART WIFI CIRCUIT BREAKERS IP20



Smart Circuit Breakers

Amps	1 Pole Code	2 Pole Code	3 Pole Code	4 Pole Code
6A	EKR3-6A-1P	EKR3-6A-2P	EKR3-6A-3P	EKR3-6A-4P
10A	EKR3-10A-1P	EKR3-10A-2P	EKR3-10A-3P	EKR3-10A-4P
16A	EKR3-16A-1P	EKR3-16A-2P	EKR3-16A-3P	EKR3-16A-4P
20A	EKR3-20A-1P	EKR3-20A-2P	EKR3-20A-3P	EKR3-20A-4P
25A	EKR3-25A-1P	EKR3-25A-2P	EKR3-25A-3P	EKR3-25A-4P
32A	EKR3-32A-1P	EKR3-32A-2P	EKR3-32A-3P	EKR3-32A-4P
40A	EKR3-40A-1P	EKR3-40A-2P	EKR3-40A-3P	EKR3-40A-4P
63A	EKR3-63A-1P	EKR3-63A-2P	EKR3-63A-3P	EKR3-63A-4P

Dimensions



- Voltage Rating: 1P/2P 230VAC/50Hz | 3P/4P 400VAC/50Hz
- Tripping Curve: C • Icu=6kA Ics=6kA
- Mechanical/ Electrical Life 20 000/8 000
- Standard: IEC60947-2 | IEC60898-1



App User Interface Device Parameters

NEW

SMART METER / CIRCUIT BREAKERS



MT61-GPS

MT61-GPT

Smart Energy Management Devices

Code	MT61-GPS*G3	MT61-GPT*G3
Type	Single phase bi-directional meter incl. 6kA MCB	Three phase bi-directional incl. 6kA MCB
Rated Voltage	110/230 VAC 50Hz	230/400 VAC 50Hz
Measured Values	Active energy(kWh), Reactive energy (kvar), Active Power(kW), Current(A), Voltage(V), Power factor(CosΘ), Temperature	
Accuracy	Class 1 kVA & Class 2 kVAR	
Pulses	1000 imp/kWh	
Connectivity	RS485/GRPS2G/3G/NB-IoT	
Measuring Range	0.4 - 18400W	

* Add current to code: 40 (40A-single phase only), 63 (63A), 80 (80A), 100 (100A)

Features

- All in one device incorporating a smart meter, circuit breaker, communication, monitoring and remote control
- Compact size for easy installation on 35 mm Din rail
- Max. demand & multi tariff metering up to 24 months of historical data
- Cloud based management software for remote monitoring of parameters, data acquisition and analysis.
- The platform also offers remote control and operational safety supervision of the installation



SMART COMMERCIAL ELECTRICAL DISTRIBUTION SYSTEM



MATIS Smart App



ACDC Smart

NOTE: Chose the communication module that suits the APP of your choice



MTS3-R2



MTS3-R4



MTS3-M1



MTS3-M2



MTS3-M3



MTS3-M4



MTS3-C



MTS3-P25N



MTS3-CT100

MTS3 - Smart Miniature Circuit Breakers

- Smart power management for home or commercial properties via app or software platform
- Real-time consumption information, alarms and safety information
- Historical consumption data for up to 12 months (consumption, voltage and current fluctuations, load fluctuations)
- Over & Under voltage, and over temperature alarms and protection
- Arc Fault Alarm built-in

6kA Earth Leakage Relay With Overload Protection RCBO - 30mA, AC Type, C-Curve

Amps	2 Pole Code 3M Wide	4 Pole Code 5M Wide
32A	MTS3-R2AC30C32	MTS3-R4AC30C32
63A	MTS3-R2AC30C63	MTS3-R4AC30C63
80A	MTS3-R2AC30C80	MTS3-R4AC30C80

6kA Motorized Miniature Circuit Breaker C Curve (Din Modules 1M = 17.5mm)

Amps	1 Pole Code 1.5M Wide	2 Pole Code 2.5M Wide	3 Pole Code 4M Wide	4 Pole Code 5M Wide
20A	MTS3-M1C20	MTS3-M2C20	-	-
32A	MTS3-M1C32	MTS3-M2C32	MTS3-M3C32	MTS3-M4C32
63A	MTS3-M1C63	MTS3-M2C63	MTS3-M3C63	MTS3-M4C63
80A	-	MTS3-M2C80	MTS3-M3C80	MTS3-M4C80

Communication Modules - Supports up to 32 devices (RCBO & MCB)

Code	Description
MTS3-CWFT	Tuya Gateway
MTS3-CWF	Ethernet Gateway, WIFI or Wired Networks
MTS3-CRS	RS485 Serial Communication Gateway
MTS3-CG2	GPRS-2G Cellular Communication Gateway

Accessories

Code	Description
MTS3-P6	6-Pin Connector for Adjacent Devices
MTS3-CT100	6-Pin Connection Cable for Separated Devices 100mm
MTS3-CT200	6-Pin Connection Cable for Separated Devices 200mm

Power Supply Module c/w Surge Protection

Code	Input	Output Voltage	Output Current	In	I _{max}	Display
MTS3-P25N	100-260VAC	12VDC	2.5A	10kA	15kA	N
MTS3-P25D	100-260VAC	12VDC	2.5A	10kA	15kA	Y

Class II Surge Protection. Can power up to 10 devices (RCBO & MCB)

Smart Auto-Reclosed Moulded Case RCBO - with Leakage Protection, 50-800mA Adjustable

Code	Poles	Breaking Capacity I _{cu}	Rated Current	Dimensions H x W x D (mm)
MTM5-EL125	3P + N	50kA	50-125A Adjustable	150 x 122 x 123
MTM5-EL250	3P + N	50kA	100-250A Adjustable	165 x 142 x 136
MTM5-EL400	3P + N	65kA	200-400A Adjustable	257 x 192 x 180
MTM5-EL630	3P + N	65kA	315-630A Adjustable	336 x 198 x 180

Communication Modules - Supports up to 32 devices (RCBO & MCB)

Code	Description
MTS3-T30	WIFI and GPRS 4G Communication Gateway
MTS3-CEL	RS485 Serial Communication Gateway

Smart Metering MCCB - with Leakage Current Protection, 30-1000mA Adjustable

1 Pole Code	Poles	Breaking Capacity I _{cu}	Rated Current	Dimensions H x W x D (mm)
MT88M-LM125	3P+N	35kA	63-125A Adjustable	240 x 142 x 138
MT88M-LM250	3P+N	35kA	100-250A Adjustable	240 x 142 x 138
MT88M-LM400	3P+N	50kA	200-400A Adjustable	336 x 198 x 180
MT88M-LM630	3P+N	50kA	400-630A Adjustable	336 x 198 x 180

Communication Modules

Code	Description
MT88C-4G	GPRS 4G, RS485 Serial & RJ45 Ethernet Communication Gateways
MT88C-4GG	GPRS 4G, RS485 Serial, RJ45 Ethernet & GPS Communication Gateways



MTM5-EL250



MTM5-EL630



MT88M



MT88C

DIN MODULAR CONTACTORS



NCH8-20



TM2P-40A



TM4P-40A

DIN Contactors - Coil Voltage 230VAC

Code	Amps AC1	No. of Poles	Width
NCH8-20	12A	2P N/O	1m
TM2P-*A	25A, 40A, 63A	2P N/O	2m
TM3P-*A	25A, 40A, 63A	3P N/O	3m
TM4P-*A	25A, 40A, 63A	4P N/O	3m
TM4P-25A/22	25A	2 N/O + 2 N/C	3m
TM4P-40A/22	40A	2 N/O + 2 N/C	3m
TM4P-63A/22	63A	2 N/O + 2 N/C	3m

*Add amps to code: 25, 40, 63

READY BOARDS



RB-1

RB-2/RB-2A

Ready Board RB-1

- 3 x 15A switched socket outlets
- 1 x 63A DP earth leakage
- 2 x 20A SP CB for socket outlets

Ready Board RB-2/2A

- 3 x 15A switched socket outlets
- 1 x 40 / 63A DP earth leakage
- 1 x 10A SP CB for lights
- 2 x 20A SP CB for socket outlets

Code	Size - H x W x D	Description
RB-1	330 x 245 x 90	No Bulkhead with 63A DP earth leakage
RB-2	455 x 245 x 90	With Bulkhead no lamp with 40A DP earth leakage
RB-2A	455 x 245 x 90	With Bulkhead no lamp with 63A DP earth leakage
RB-2B	455 x 245 x 90	RB-2A with 2 x 16A SA sockets + 1 x 16A N-Type socket

NEW



Modular Ready Board - PC Nylon Housing

Code	Size - H x W x D	Description
GPRB-2	375 x 255 x 100mm	Ready Board Includes: 1 x 40A DP Earth Leakage 2 x 16A SA Switched Socket Outlets 2 x N-Type Switched Socket Outlets 2 x 20A SP CB for Sockets & Light 1 x Bulkhead with B22 Lampholder (no Lamp)

DIN PRE-ASSEMBLED DISTRIBUTION BOARDS

White Pre-assembled Distribution Boards - Populated with 4.5kA AC/DC Breakers



Surface Type



Flush Type

Surface	Pre-Wired		12 Way Pre-Wired	12 Way Pre Assembled
	8 Way DB SRB-3	12 Way DB SRB-3/12	Code SRB-4	Code SRB-5
Flush	Pre-Wired		12 Way Pre-Wired	12 Way Pre Assembled
	8 Way DB FRB-3	12 Way DB FRB-3/12	Code FRB-4	Code FRB-5
	1 x 63A DP MCB (Mains)		1 x 63A DP MCB (Mains)	1 x 63A DP MCB (Mains)
	1 x 63A ELU 30mA		1 x 63A ELU 30mA	1 x 63A ELU 30mA
	1 x 32A SP MCB (Stove)		1 x 32A SP MCB (Stove)	1 x 32A SP MCB (Stove)
	1 x 16A SP MCB (Geyser)		1 x 16A SP MCB (Geyser)	1 x 16A SP MCB (Geyser)
	1 x 10A SP MCB (Lights)		2 x 10A SP MCB (Lights)	2 x 10A SP MCB (Lights)
	1 x 20A SP MCB (Plugs)		3 x 20A SP MCB (Plugs)	3 x 20A SP MCB (Plugs)

Surface Type

- Adjustable steel tray
- 20mm and 25mm knock outs
- Smokey, transparent lid
- 2 x Neutral bars, fitted,
- 1 x Earth bar

Flush Type

- 20mm and 25mm knock outs
- Smokey, transparent lid
- 2 x Neutral bars, fitted,
- 1 x Earth bar

DIN MINIATURE CIRCUIT BREAKERS

C & D Curve 4,5kA Circuit Breakers

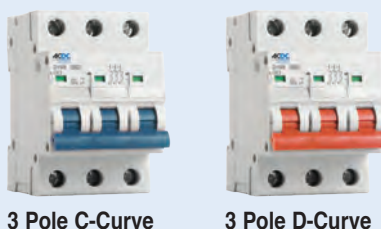
DIN Modules 1M = 17.5mm - IEC 60947-2 / VC8036



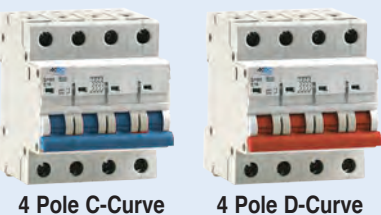
1 Pole C-Curve 1 Pole D-Curve



1P+N | 2P C-Curve 1P+N | 2P D-Curve



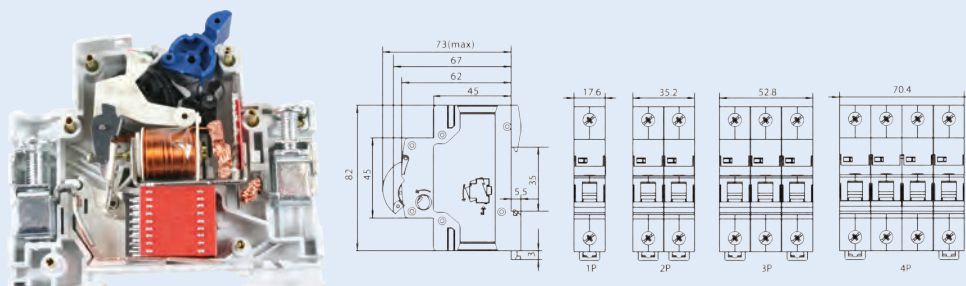
3 Pole C-Curve 3 Pole D-Curve



4 Pole C-Curve 4 Pole D-Curve

Amps	1 Pole Code 1M wide	1 P+N Code 2M wide	2 Pole Code 2M wide	3 Pole Code 3M wide	4 Pole Code 4M wide
1A	GYM8-1-1*	-	GYM8-2-1*	GYM8-3-1*	-
2A	GYM8-1-2*	-	GYM8-2-2*	GYM8-3-2*	GYM8-4-2*
3A	GYM8-1-3*	-	GYM8-2-3*	GYM8-3-3*	-
4A	GYM8-1-4*	-	GYM8-2-4*	GYM8-3-4*	-
6A	GYM8-1-6*	GYM8-1N-6*	GYM8-2-6*	GYM8-3-6*	GYM8-4-6*
10A	GYM8-1-10*	GYM8-1N-10*	GYM8-2-10*	GYM8-3-10*	GYM8-4-10*
16A	GYM8-1-16*	GYM8-1N-16*	GYM8-2-16*	GYM8-3-16*	GYM8-4-16*
20A	GYM8-1-20*	GYM8-1N-20*	GYM8-2-20*	GYM8-3-20*	GYM8-4-20*
25A	GYM8-1-25*	GYM8-1N-25*	GYM8-2-25*	GYM8-3-25*	GYM8-4-25*
32A	GYM8-1-32*	GYM8-1N-32*	GYM8-2-32*	GYM8-3-32*	GYM8-4-32*
40A	GYM8-1-40*	GYM8-1N-40*	GYM8-2-40*	GYM8-3-40*	GYM8-4-40*
50A	GYM8-1-50*	GYM8-1N-50*	GYM8-2-50*	GYM8-3-50*	GYM8-4-50*
63A	GYM8-1-63*	GYM8-1N-63*	GYM8-2-63*	GYM8-3-63*	GYM8-4-63*

*Add curve to code: **C** (C-Curve) or **D** (D-Curve)



C & D Curve 10kA Circuit Breakers - IEC 60947-2 / VC8036



1 Pole C-Curve 1 Pole D-Curve

Amps	1 Pole Code 1.5M	1 P+N Code 3M	2 Pole Code 3M	3 Pole Code 4.5M	4 Pole Code 6M
80A	GYM16-1-80*	GYM16-1N-80*	GYM16-2-80*	GYM16-3-80*	GYM16-4-80*
100A	GYM16-1-100*	GYM16-1N-100*	GYM16-2-100*	GYM16-3-100*	GYM16-4-100*
125A	GYM16-1-125*	GYM16-1N-125*	GYM16-2-125*	GYM16-3-125*	GYM16-4-125*

*Add curve to code: **C** (C-Curve) or **D** (D-Curve)

Isolators - IEC 60947-3



Amps	1 Pole Code 1M wide	2 Pole Code 2M wide	3 Pole Code 3M wide	4 Pole Code 4M wide
32A	GYH8-1-32	GYH8-2-32	GYH8-3-32	GYH8-4-32
63A	GYH8-1-63	GYH8-2-63	GYH8-3-63	GYH8-4-63
100A	GYH8-1-100	GYH8-2-100	GYH8-3-100	GYH8-4-100
125A	GYH8-1-125	GYH8-2-125	GYH8-3-125	GYH8-4-125

Earth Leakage Relays - 30mA VC8035



1 Pole + N 2 Pole 4 Pole

No Overload Protection			With Overload Protection		
Amps	2 Pole Code 2M Wide	4 Pole Code 4M Wide	Amps	2P + N Code 1M Wide	2 Pole Code 2M Wide
25A	GYL8-2-25	GYL8-4-25	25A	-	GYR8NM-2-25
32A	GYL8-2-32	-	32A	GYL8-1-32*	-
40A	GYL8-2-40	GYL8-4-40	40A	-	GYR8NM-2-40
63A	GYL8-2-63	GYL8-4-63	63A	-	GYR8NM-2-63

*Add -10MA for 10mA option

NEW

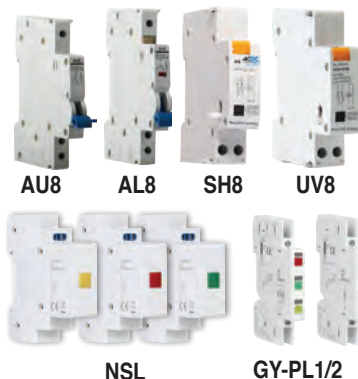
DIN MINIATURE CIRCUIT BREAKERS



Arc Fault Circuit Breaker - Rated Voltage: 230VAC, C-Curve, 6kA

Amps	1P+N Code	Arc Fault Tripping Time @ RMS Test Current						Leakage Protection	Over Voltage Protection
		3A	6A	13A	20A	40A	63A		
40A	GYR9NE-ARC-40A	1s	0.5s	0.25s	0.25s	0.12s	0.12s	30mA	275V ±5%

The arc fault protection unit of **GYA9NE-ARC** series, can detect and identify series arc faults, parallel arch faults and ground arc faults in the circuit and automatically trip. LED indication of reason for last trip and status.
4 in 1- Arc Fault, Overload, Earth Leakage and overvoltage protection in one unit.



Modular Accessories

Code	Type	Voltage	Amps	Width
GY-AU8	Auxiliary Contact 1NO + 1NC (1C/O)	-	6A	½m
GY-AL8	Alarm Contact 1NO + 1NC (1C/O)	-	1A	½m
GY-SH8	Shunt Trip Left Side	110-220VAC/DC	-	1m
GY-UV8	Undervoltage Relay Left Side	230VAC	-	1m
GY-PL1/2- *	1/2 Module Pilot light	230VAC	-	½m
NSL- *	DIN Rail Pilot Light	230VAC	-	1m

GY-PL1/2 - *Add colour to code: ● R (Red), ● GN (Green), ● Y (Yellow), ●●● RGY (Red, Green, Yellow)

NSL - *Add colour to code: ○ W (White), ● R (Red), ● GN (Green), ● BL (Blue),

● Y (Yellow), ●●● RGY (Red, Green, Yellow)

DIN MCB Accessories

Code	End Caps	Description	Carton Qty
------	----------	-------------	------------

Busbars – Spade Terminals

AS-25-SN	–	Busbar terminal for wire sizes up to 25mm ²	–
S1L-1000/16	–	Insulated busbar 1 phase 63Amps, 1000mm, 56 poles	50
S2L-1000/16	EK-B-2+3	Insulated busbar 2 phase 63Amps, 1000mm, 56 poles	20
S3L-1000/16	EK-B-2+3	Insulated busbar 3 phase 63Amps, 1000mm, 56 poles	20
CK-SAM	–	Conversion Kit from DIN Breakers to 13mm mini rail	–
SP-FBD1M	–	1 x Module Rail Mount Dummy Dark Grey	–
SP-FBD1M-WH	–	1 x Module Rail Mount Dummy White	–
CK-SAM-R	–	1m Conversion rail DIN to 13mm mini rail - c/w Blanking Strip	–

Code	Description
------	-------------

Busbars – Fork Terminals

EK-B-2+3	Insulated end cap for 2 & 3 pole busbars
G1L-1000/16	Fork busbar 1 phase 63Amps, 1000mm, 56 poles.
G2L-1000/16	Fork busbar 2 phase 63Amps, 1000mm, 56 poles.
G3L-1000/16	Fork busbar 3 phase 63Amps, 1000mm, 56 poles.



NEW

SMART CIRCUIT BREAKER AUTO RECLOSER

Wifi Smart Circuit Breaker Recloser Device

Operating mechanism with remote control function, which realizes remote ON/OFF of the associated device (MCB) by App.

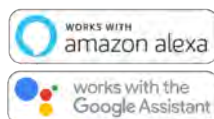
Code	Motor Voltage	Use with Breaker	Contact Input	DIN Width	Motor Control/ Static Power
MT53-GYM8-2P	230VAC	1P / 2P	1NO	1 Module	20VA/1VA
MT53-GYM8-4P	230VAC	3P / 4P	1NO	1 Module	20VA/1VA

Basic Features

- Manual mode: Disengages motor for manual operation
- Auto mode: When a circuit breaker trips, the device will attempt to reclose the circuit. In case of a persistent fault, the device will go into a fault mode after 3 unsuccessful attempts to reclose the circuit.
- Safety lockout integrated into the device
- Suitable for use with ACDC GYM8 MCB

In App Features

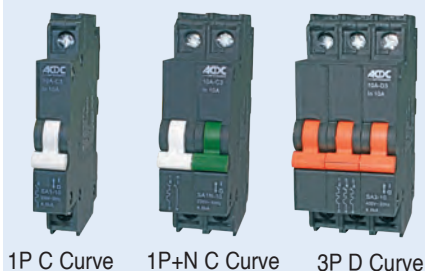
- Remote ON/OFF control of MCB
- Indication of status Open/Close
- Events records • Show mode of Operation
- Schedule operations
- Operation Life: above 10000 times
- Wifi Connection and status indication



Note: Please see page 7.11 for GYM8* circuit breaker full range



13MM MINIATURE CIRCUIT BREAKERS (MCBs) 4.5kA



1P C Curve 1P+N C Curve 3P D Curve



2P D Curve 4P C Curve



6kA C Curve ≥ 63A 6kA D Curve ≥ 63A



6kA 4P C Curve ≥ 63A

SA Range 1M = 13mm IEC60947 / VC8036

Amps	1 Pole Code 1M wide	1 P+N Code 2M wide	2 Pole Code 2M wide	3 Pole Code 3M wide	3 P+N Code 4M wide	4 Pole Code 4M wide
------	------------------------	-----------------------	------------------------	------------------------	-----------------------	------------------------

4.5kA Circuit Breakers C Curve

1A	SA1-1	—	—	—	—	—
2A	SA1-2	—	—	—	—	—
5A	SA1-5*	SA1N-5*	SA2-5*	SA3-5*	SA3N-5	SA4-5
10A	SA1-10*	SA1N-10*	SA2-10*	SA3-10*	SA3N-10	SA4-10
15A	SA1-15*	SA1N-15*	SA2-15*	SA3-15*	SA3N-15	SA4-15
20A	SA1-20*	SA1N-20*	SA2-20*	SA3-20*	SA3N-20	SA4-20
25A	SA1-25*	SA1N-25*	SA2-25*	SA3-25*	SA3N-25	SA4-25
32A	SA1-32*	SA1N-32*	SA2-32*	SA3-32*	SA3N-32	SA4-32
40A	SA1-40*	SA1N-40*	SA2-40*	SA3-40*	SA3N-40	SA4-40
50A	SA1-50*	SA1N-50*	SA2-50*	SA3-50*	SA3N-50	SA4-50
63A	SA1-63*	SA1N-63*	SA2-63*	SA3-63*	—	SA4-63

6kA Circuit Breakers C Curve

5A	SA61-5*	—	SA62-5*	SA63-5*	—	—
10A	SA61-10*	—	SA62-10*	SA63-10*	—	—
15A	SA61-15*	—	SA62-15*	SA63-15*	—	—
20A	SA61-20*	—	SA62-20*	SA63-20*	—	—
25A	SA61-25*	—	SA62-25*	SA63-25*	—	—
32A	SA61-32*	—	SA62-32*	SA63-32*	—	—
45A	SA61-40*	—	SA62-40*	SA63-40*	—	—
50A	SA61-50*	—	SA62-50*	SA63-50*	—	—

Amps	1 Pole Code 2M wide	—	2 Pole Code 4M wide	3 Pole Code 6M wide	—	4 Pole Code 8M wide
63A	SA61-63*	—	SA62-63*	SA63-63*	—	SA64-63
80A	SA61-80*	—	SA62-80*	SA63-80*	—	SA64-80
100A	SA61-100*	—	SA62-100*	SA63-100*	—	SA64-100
125A	SA61-125*	—	SA62-125*	SA63-125*	—	SA64-125

* For D Curve Breakers, Add -D to code, e.g. SA1-10-D

Isolators

Amps	1M wide	—	2M wide	3M wide	—	4M wide
25A	SAS1-25	—	SAS2-25	SAS3-25	—	SAS4-25
40A	SAS1-40	—	SAS2-40	SAS3-40	—	SAS4-40
63A	SAS1-63	—	SAS2-63	SAS3-63	—	SAS4-63

Earth Leakage Relays - RCDs 30mA

No Overload Protection						With Overload		
Amps	2 Pole Code		Width	4 Pole Code	Width	Amps	2 Pole Code	Width
	Type AC	Type A						
25A	SAE2-25	—	2M	SAE4-25	4M	25A	SAE2L-25	2M
40A	SAE2-40	—	2M	SAE4-40	4M	32A	SAE2L-32	2M
63A	—	SAE2A-63	2M	SAE4-63	4M	63A	SAE2L-63	2M

13MM MINIATURE CIRCUIT BREAKERS (MCBs) 4.5kA



Surge Protection Device

Code	Class	No. of poles	I _{max} 8/20	I _n 8/20	U _p	U _c	U _n	Width
SASP-5KA	2	1	10kA	5kA	1200V	275V	230V	1M
SASP-15KA	2	1	30kA	15kA	1200V	275V	230V	1M



Time Switch

Code	Description
SAT-30A	• 24hrs/7days 8 On + 8 Off Programs • 3M Width (39mm) • Switching Capacity: 30A • 15 Days Reserve



SAM-RAIL



SAM-BLANK-WH



SAM-B1C



SAM-B1



SAM-B3C

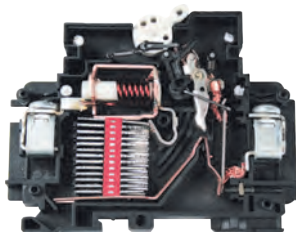


SAM-NB

13mm Mini C/B Accessories

Code	Description
SAM-RAIL	Mini Rail for circuit breakers 77 Way/1m
SAM-B1C	Copper busbar for 13mm mini rail breakers 750mm long 1 Pole black insulated
SAM-B1	Copper busbar for 13mm mini rail breakers 750mm long 1 Pole non-insulated
SAM-B2C	Copper busbar for 13mm Mini Rail Breakers 750mm long 2 Pole black insulated
SAM-B3C	Copper busbar for 13mm mini rail breakers 750mm long 3 Pole black insulated
SAM-BLANK-WH	4½ way 13mm mini rail blanks, white
SAM-BLANK-BK	4½ Way 13mm mini rail blanks, black
SAM-NB	Neutral bar clip-in to rail Accommodates 16mm² x 1, 7mm² x 7

Arc chute has 13 splitter plates to increase safety and extend contact life



Dual rail mounting: Mini Rail or DIN Rail

Thermal magnetic tripping mechanism provides accurate tripping at lower currents and protects against loose connection on the load terminals



MCB



Isolator



Earth Leakage



Flush Mount



Surface Mount

13MM PRE-WIRED DISTRIBUTION BOARDS

Flush Type



- Adjustable steel tray
- 20mm & 25mm knock outs
- Smokey, transparent lid
- 2x Neutral bars, fitted
- 1x Earth bar

White Pre-Assembled Distribution Boards - Populated with 13mm MCBs

	8 Way		11 Way	
	Pre-Wired	Pre-Assembled	Pre-Wired	Pre-Assembled
Surface	SRBSAM-3	SRBSAM-5	SRBSAM-4	SRBSAM-6
Flush	FRBSAM-3	FRBSAM-5	FRBSAM-4	FRBSAM-6
	1x 63A 1P+N MCB (Mains)		1x 63A 1P+N MCB (Mains)	
	1x 32A SP MCB (Stove)		1x 32A SP MCB (Stove)	
	1x 16A SP MCB (Geyser)		1x 16A SP MCB (Geyser)	
	1x 63A ELU 30mA		1x 63A ELU 30mA	
	1x 10A SP MCB (Lights)		2x 10A SP MCB (Lights)	
	1x 20A SP MCB (Plugs)		3x 20A SP MCB (Plugs)	
	Supplied in 11-way enclosure.			

Surface Type



- 20mm & 25mm knock outs
- Smokey, transparent lid
- 2x Neutral bars, fitted
- 1x Earth bar

TEMBREAK 2 MCCB's


S125-NJ

Max Panel depth with VDH: 543mm

125A Adjustable Settings

	3-Pole	S125-NJ	S125-GJ	L125-NJ
	4-Pole	S125-NJ4	S125-GJ4	L125-NJ4
Nominal Current Ratings -5 to 50°C 2000m		020A (12.5-20)	020A (12.5-20)	020A (12.5-20)
		032A (20-32)	032A (20-32)	032A (20-32)
		050A (32-50)	050A (32-50)	050A (32-50)
		063A (40-63)	063A (40-63)	063A (40-63)
		100A (63-100)	100A (63-100)	100A (63-100)
		125A (80-125)	125A (80-125)	125A (80-125)
Ratings:	Frame Size	TB2 S125		TB2 S/H/L 250
	Ui / Ue	800/690V	800/690V	800/690V
	Icu/Ics 400/415V	36/30kA	65/33kA	200/150kA
	Icu/Ics 525V	22/22kA	25/22kA	65/65kA
	Icu/Ics 250VDC	25/19kA	40/40kA	40/40kA
Protection:	Overload	0.63-1 x In	0.63-1 x In	0.63-1 x In
	Short Circuit	6-10 x In	6-10 x In	6-10 x In



160A Tembreak 2 Lite Space Saving MCCB

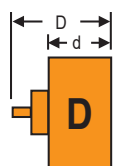
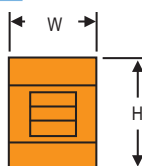
	3-Pole	E160-SF	S160-SCF	S160-SF	E160-SJ	S160-SCJ	S160-SJ
	4-Pole	E160-SF4	S160-SCF4	S160-SF4	E160-SJ4	S160-SCJ4	S160-SJ4
Nominal Current Ratings -5 to 50°C 2000m		016A 063A	016A 063A	016A 063A	025A (16-25)	025A (16-25)	025A (16-25)
		020A 080A	020A 080A	020A 080A	040A (25-40)	040A (25-40)	040A (25-40)
		025A 100A	025A 100A	025A 100A	063A (40-63)	063A (40-63)	063A (40-63)
		032A 125A	032A 125A	032A 125A	080A (50-80)	080A (50-80)	080A (50-80)
		040A 160A	040A 160A	040A 160A	100A (63-100)	100A (63-100)	100A (63-100)
		050A	050A	050A	125A (80-125)	125A (80-125)	125A (80-125)
					160A (100-160)	160A (100-160)	160A (100-160)
Ratings:	Frame Size	TB2 LITE 160					
	Ui / Ue	690/525V	690/525V	690/690V	690/525V	690/525V	690/690V
	Icu/Ics 400/415V	16/8kA	25/13kA	40/20kA	16/8kA	25/13kA	40/20kA
	Icu/Ics 525V	6/3kA	7.5/4kA	10/7.5kA	6/3kA	7.5/4kA	10/7.5kA
	Icu/Ics 250VDC	13/7kA	20/10kA	25/13kA	13/7kA	20/10kA	25/13kA
Protection:	Overload	Fixed	Fixed	Fixed	0.63-1 x In	0.63-1 x In	0.63-1 x In
	Short Circuit	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed


S160-NJ

160A Adjustable Settings

	3-Pole	S160-NJ	S160-GJ	L160-NJ
	4-Pole	S160-NJ4	S160-GJ4	L160-NJ4
Nominal Current Ratings -5 to 50°C 200m		160A (100-160)	160A (100-160)	160A (100-160)
Ratings:	Frame Size	TB2 S250		TB2 S/H/L 250
	Ui / Ue	800/690V	800/690V	800/690V
	Icu/Ics 400/415V	36/25kA	65/36kA	200/150kA
	Icu/Ics 525V	25/25kA	25/25kA	65/65kA
	Icu/Ics 250VDC	40/40kA	40/40kA	40/40kA
Protection:	Overload	0.63-1 x In	0.63-1 x In	0.63-1 x In
	Short Circuit	6-12 x In	6-12 x In	6-12 x In

Frame Sizes



Frame Size	TB2 S125	TB2 LITE 160	TB2 S250	TB2 S/H/L 250
H	155mm	130mm	165mm	165mm
W-3P	90mm	75mm	105mm	105mm
W-4P	120mm	100mm	140mm	140mm
d	68mm	68mm	68mm	103mm
D	92mm	95mm	92mm	127mm

*A - Standard relay with LSI characteristics N - N-Phase Protection
P - Pretrip Alarm G - Ground Fault trip S - Phase Rotation Protection

Red Codes are available ex indent

©ACDC Dynamics

TEMBREAK 2 MCCB's

250A Tembreak 2 Lite Space Saving MCCB



Nominal Current Ratings
-5 to 50°C
2000m

3-Pole	E250-SCF	E250-SF	S250-SF	E250-SCJ	E250-SJ	S250-SJ
4-Pole	E250-SCF4	E250-SF4	S250-SF4	E250-SCJ4	E250-SJ4	S250-SJ4
Nominal Current Ratings -5 to 50°C 2000m	175A	175A	175A	160A (100-160)	160A (100-160)	200A (126-200)
	200A	200A	200A	200A (126-200)	200A (126-200)	250A (160-250)
	225A	225A	225A	250A (160-250)	250A (160-250)	
	250A	250A	250A			

Ratings:	Frame Size	TB2 LITE 250				
	Ui / Ue	690/525V	690/525V	690/690V	800/525V	800/525V
	Icu/lcs 400/415V	16/8kA	25/19kA	40/20kA	16/8kA	25/19kA
	Icu/lcs 525V	6/3kA	7.5/6kA	10/7.5kA	6/3kA	7.5/6kA
	Icu/lcs 250VDC	13/7kA	15/12kA	25/13kA	13/7kA	15/12kA
Protection:	Overload	Fixed	Fixed	Fixed	0.63-1 x In	0.63-1 x In
	Short Circuit	Fixed	Fixed	Fixed	5-11 x In	5-11 x In

250A Adjustable Settings



S250-GJ

		3-Pole	S250-NJ	S250-NE	S250-GJ	L250-NJ
		4-Pole	S250-NJ4	S250-NE4	S250-GJ4	L250-NJ4
Nominal Current Ratings -5 to 50°C 2000m			200A (126-200)	125A (50-125)	200A (126-200)	250A (160-250)
			250A (160-250)	160A (64-160)	250A (160-250)	
				250A (100-250)		
Ratings:	Frame Size	TB2 S250	TB2 S/H/L 250	TB2 S250	TB2 S/H/L 250	
	Ui / Ue	800/690V	800/690V	800/690V	800/690V	
	Icu/Ics 400/415V	36/36kA	36/35kA	65/36kA	200/150kA	
	Icu/Ics 525V	25/25kA	25/25kA	25/25kA	65/65kA	
	Icu/Ics 250VDC	40/40kA	N/A	40/40kA	40/40kA	
Protection:	Overload	0.63-1 x In	Electronic	0.63-1 x In	0.63-1 x In	
	Short Circuit	6-10 x In	Electronic	6-10 x In	6-10 x In	

400A Adjustable Settings



S400-CJ

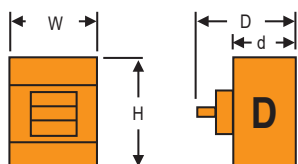
3-Pole	E400-NJ	S400-CJ	S400-NJ	S400-NE	S400-GJ	L400-NE
4-Pole	E400-NJ4	S400-CJ4	S400-NJ4	S400-NE4	S400-GJ4	L400-NE4
Nominal Current Ratings -5 to 50°C 2000m	400A (250-400)	400A (250-400)	400A (250-400)	400A (160-400)	400A (250-400)	400A (160-400)
Ratings:	Frame Size	TB2 E/S 630				TB2 H/L 400
	Ui / Ue	800/525V	800/690V	800/690V	800/690V	800/690V
	Icu/lcs 400/415V	25/25kA	36k/36A	50/50kA	50/50kA	70/50kA
	Icu/lcs 525V	15/15kA	22/22kA	30/30kA	30/30kA	30/30kA
	Icu/lcs 250VDC	25/19kA	40/40kA	40/40kA	N/A	40/40kA
Protection:	Overload	0.63-1 x In	0.63-1 x In	0.63-1 x In	Electronic	0.63-1 x In
	Short Circuit	6-12 x In	6-12 x In	6-12 x In	Electronic	6-12 x In

630A Adjustable Settings



3-Pole	E630-NE	S630-CE	S630-GE	E630-NE AG*
4-Pole	E630-NE4	S630-CE4	S630-GE4	E630-NE4 APGN*
Nominal Current Ratings -5 to 50°C 2000m	630A (250-630)	630A (250-630)	630A (250-630)	630A (250-630)
Ratings:	Frame Size	TB2 E/S 630		
	Ui / Ue	800/690V	800/690V	800/690V
	Icu/lcs 400/415V	36/36kA	50/50kA	70/50kA
	Icu/lcs 525V	15/15kA	30/30kA	30/30kA
	Icu/lcs 250VDC	N/A	N/A	N/A
Protection:	Overload	Electronic	Electronic	Electronic
	Short Circuit	Electronic	Electronic	Electronic

Frame Sizes



Frame Size	TB2 LITE 250	TB2 S250	TB2 S/H/L 250	TB2 E/S 630	TB2 H/L 400
H	165mm	165mm	165mm	260mm	260mm
W-3P	105mm	105mm	105mm	140mm	140mm
W-4P	140mm	140mm	140mm	185mm	185mm
d	68mm	68mm	103mm	103mm	140mm
D	95mm	92mm	127mm	145mm	182mm

TEMBREAK 2 MCCB's



S800-NJ

800A Adjustable Settings

	3-Pole	S800-CJ	S800-NJ	S800-NE	S800-RJ
	4-Pole	S800-CJ4	S800-NJ4	S800-NE4	S800-RJ4
Nominal Current Ratings -5 to 50°C 2000m		800A (500-800)	800A (500-800)	800A (320-800)	800A (500-800)
Ratings:	Frame Size	TB2 1000			
	Ui / Ue	800/690V	800/690V	800/690V	800/690V
	Icu/Ics 400/415V	36/36kA	50/50kA	50/50kA	70/50kA
	Icu/Ics 525V	15/15kA	30/30kA	30/30kA	45/34kA
	Icu/Ics 250VDC	50/50kA	50/50kA	N/A	50/50kA
Protection:	Overload	0.63-1 x In	0.63-1 x In	Electronic	0.63-1 x In
	Short Circuit	5-10 x In	5-10 x In	Electronic	5-10 x In



S1000-SE
Supplied with extension bars

1000A Adjustable Settings

	3-Pole	S1000-SE	S1000-NE	S1000-SE AG*	S1000-NE AG*
	4-Pole	S1000-SE4	S1000-NE4	S1000-SE4 APGNS*	S1000-NE4 APGNS*
Nominal Current Ratings -5 to 50°C 2000m		1000A (400-1000)	1000A (400-1000)	1000A (400-1000)	1000A (400-1000)
Ratings:	Frame Size	TB2 1000			
	Ui / Ue	800/690V	800/690V	800/690V	800/690V
	Icu/Ics 400/415V	50/38kA	70/50kA	50/38kA	70/50kA
	Icu/Ics 525V	30/23kA	45/34kA	30/23kA	45/34kA
	Icu/Ics 250VDC	N/A	N/A	N/A	N/A
Protection:	Overload	Electronic	Electronic	Electronic	Electronic
	Short Circuit	Electronic	Electronic	Electronic	Electronic



S1250-SE
Supplied with extension bars

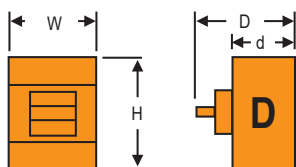
1250A Adjustable Settings

	3-Pole	S1250-SE	S1250-NE	S1250-GE	S1250-NE AG*
	4-Pole	S1250-SE4	S1250-NE4	S1250-GE4	S1250-NE4 APGNS*
Nominal Current Ratings -5 to 50°C 2000m		1250A (500-1250)	1250A (500-1250)	1250A (500-1250)	1250A (500-1250)
Ratings:	Frame Size	TB2 1250			
	Ui / Ue	800/690V	800/690V	800/690V	800/690V
	Icu/Ics 400V	50/38kA	70/50kA	100/75kA	70/50kA
	Icu/Ics 525V	30/23kA	45/34kA	65/50kA	45/34kA
	Icu/Ics 250VDC	N/A	N/A	N/A	N/A
Protection:	Overload	Electronic	Electronic	Electronic	Electronic
	Short Circuit	Electronic	Electronic	Electronic	Electronic

1600A Adjustable Settings

	3-Pole	S1600-SE	S1600-NE	S1600-SE AG*	S1600-NE AG*
	4-Pole	S1600-SE4	S1600-NE4	S1600-SE4 APGN*	S1600-NE4 APGN*
Nominal Current Ratings -5 to 50°C 2000m		1600A (640-1600)	1600A (640-1600)	1600A (640-1600)	1600A (640-1600)
Ratings:	Frame Size	TB2 1600			
	Ui / Ue	800/690V	800/690V	800/690V	800/690V
	Icu/Ics 400V	50/38kA	100/75kA	50/38kA	100/75kA
	Icu/Ics 525V	30/23kA	65/50kA	30/23kA	65/50kA
	Icu/Ics 250VDC	N/A	N/A	N/A	N/A
Protection:	Overload	Electronic	Electronic	Electronic	Electronic
	Short Circuit	Electronic	Electronic	Electronic	Electronic

Frame Sizes



Frame Size	TB2 1000	TB2 1250	TB2 1600
H	273mm	370mm	370mm
W-3P	210mm	210mm	210mm
W-4P	280mm	280mm	280mm
d	103mm	120mm	140mm
D	145mm	171mm	191mm

TEMBREAK 2 DC MCCB's

 S160-SD	160-250A 600VDC Adjustable Thermal Fixed Magnetic Settings				600VDC Isolators	
		3-Pole	S160-SD	S250-SD	S160-SDN	S250-SDN
	Nominal Current Ratings at 50°C		25A (16-25)	200A (125-200)	160A	250A
			32A (20-32)	250A (160-250)		
	Supplied with Line side Terminal Covers		40A (25-40)			
			63A (40-63)			
			80A (50-80)			
			100A (63-100)			
			125A (80-125)			
			160A (100-160)			
Ratings:	Frame Size	TB2 LITE 160	TB2 LITE 250	TB2 LITE 160	TB2 LITE 250	
	Ui / Ue	690/600VDC	160800/600VDC	690/600VDC	800/600VDC	
	Icu/Ics 600VDC	5/5kA	5/5kA	N/A	N/A	
Protection:	Overload	0.63 -1 x In	0.63 -1 x In	N/A	N/A	
	Short Circuit	Fixed	Fixed	N/A	N/A	

 PVS160-SDH	160-250A 1000VDC Adjustable Thermal Fixed Magnetic Settings				1000VDC Isolators	
		4-Pole	PVS160-SDH4	PVS250-SDH4	PVS160-SNH4	PVS250-SNH4
	Nominal Current Ratings at 50°C		50A (32-50)	200A (125-200)	160A	1000A
			63A (40-63)	250A (160-250)		
	Supplied with Line & Load side Terminal Covers		100A (63-100)			
			125A (80-125)			
			160A (100-160)			
	Ratings:	Frame Size	TB2 LITE 250			
		Ui / Ue	1000/1000VDC	1000/1000VDC	1000/1000VDC	1000/1000VDC
Icu/Ics 1000VDC		5/5kA	5/5kA	N/A N/A	N/A	
Protection:	Overload	0.63 -1 x In	0.63 -1 x In	N/A	N/A	
	Short Circuit	Fixed	Fixed	N/A	N/A	

 S400-ND	400-1000A 600VDC Adjustable Thermal Fixed Magnetic Settings				600VDC Isolators		
		3-Pole	S400-ND	S800-ND	S1000-ND	PVS400-NNL	PVS800-NNL
	Nominal Current Ratings at 50°C		400A (250-400)	630A (400-630)	1000A	400A	800A
				800A (500-800)			
	Supplied with Line side Interpole Barriers						
	Ratings:	Frame Size	TB2 E/S 630	TB2 1000		TB2 H/L 400	TB2 H/L 800
		Ui / Ue	800/600VDC	800/600VDC	800/600VDC	800/750VDC	800/750VDC
		Icu/Ics 600VDC	15/15kA	20/10kA	20/10kA	N/A	N/A
Protection:	Overload	0.63 -1 x In	0.63 -1 x In	Fixed	N/A	N/A	
	Short Circuit	Fixed	Fixed	Fixed	N/A	N/A	

 PVS400-NDH	400-1000A 1000VDC Adjustable Thermal Fixed Magnetic Settings				1000VDC Isolators	
		4-Pole	PVS400-NDH4	PVS800-NDH4	PVS400-NNH4	PVS800-NNH4
	Nominal Current Ratings at 50°C		400A (250-400)	630A (400-630)	400A	800A
				800A (500-800)		
	Supplied with Line & Load side Interpole Barriers					
	Ratings:	Frame Size	TB2 H/L 400	TB2 H/L 800	TB2 H/L 400	TB2 H/L 800
		Ui / Ue	1150/1000VDC	1150/1000VDC	1150/1000VDC	1150/1000VDC
		Icu/Ics 1000VDC	10/5kA	10/5kA	N/A	N/A
Protection:	Overload	0.63 -1 x In	0.63 -1 x In	N/A	N/A	
	Short Circuit	Fixed	Fixed	N/A	N/A	

 PVS800-NDH	400-1000A 1000VDC Adjustable Thermal Fixed Magnetic Settings				1000VDC Isolators	
		4-Pole	PVS400-NDH4	PVS800-NDH4	PVS400-NNH4	PVS800-NNH4
	Nominal Current Ratings at 50°C		400A (250-400)	630A (400-630)	400A	800A
				800A (500-800)		
	Supplied with Line & Load side Interpole Barriers					
	Ratings:	Frame Size	TB2 H/L 400	TB2 H/L 800	TB2 H/L 400	TB2 H/L 800
		Ui / Ue	1150/1000VDC	1150/1000VDC	1150/1000VDC	1150/1000VDC
		Icu/Ics 1000VDC	10/5kA	10/5kA	N/A	N/A
Protection:	Overload	0.63 -1 x In	0.63 -1 x In	N/A	N/A	
	Short Circuit	Fixed	Fixed	N/A	N/A	

MCCB's WITH INTEGRATED EARTH LEAKAGE PROTECTION

125-250A Adjustable Settings With Earth Leakage



ZE125-NJ

Nominal Current Ratings
-5 to 50°C
2000m
Type A Protection



ZE125-NJ ZP

		3-Pole	ZE125-NJ*	ZS125-NJ*	ZS125-GJ*	ZE250-NJ*	ZS250-NJ*	ZS250-GJ*
		4-Pole	ZE125-NJ4	ZS125-NJ4	ZS125-GJ4	ZE250-NJ4	ZS250-NJ4	ZS250-GJ4
Ratings:	Frame Size	TB2 S125			TB2 S250			
	Ui/Ue	525/525V	525/525V	525/525V	525/525V	525/525V	525/525V	525/525V
	Icu/Ics 400V	25/19kA	36/36kA	65/36kA	25/19kA	36/36kA	65/36kA	65/36kA
	Icu/Ics 525V	8/6kA	22/22kA	25/22kA	10/7.5kA	25/25kA	25/25kA	25/25kA
	Earth Leakage	30mA - 3A	30mA - 3A	30mA - 3A	30mA - 3A	30mA - 3A	30mA - 3A	30mA - 3A
	ΔT (Delay)	0-700mS/NT (No Trip)	0-700mS/NT (No Trip)	0-700mS/NT (No Trip)	0-700mS/NT (No Trip)	0-700mS/NT (No Trip)	0-700mS/NT (No Trip)	0-700mS/NT (No Trip)
Protection:	Overload	0.63-1 x In	0.63-1 x In	0.63-1 x In	0.63-1 x In	0.63-1 x In	0.63-1 x In	0.63-1 x In
	Short Circuit	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed

* 3P Breaker are available with remote trip & alarm function. Add **ZP** to code eg: **ZS125-NJ ZP 100A**

Note: This range can only accommodate one alarm and two auxiliary contact blocks. No shunts or UVT's can be fitted. Modules with ZP Add on are 23mm wider than the standard breaker.

ISOLATORS

Tembreak 2 Isolators

100% rated Neutral, early make, late break.



3-Pole	S160-SN	S250-SN	S125-NN	S160-NN	S250-NN
4-Pole	S160-SN4	S250-SN4	S125-NN4	S160-NN4	S250-NN4
Nominal Current Rating	160A	250A	125A	160A	250A
Frame size	TB2 LITE 160	TB2 LITE 250	TB2 S125	TB2 S250	TB2 S250
Ui/Ue AC	690/690V	800/690V	800/690V	800/690V	800/690V
Icm	2.8kA	6kA	3.6kA	6kA	6kA

100% rated Neutral, early make, late break.



3-Pole	S400-NN	S630-NN	S800-NN	S1000-NN	S1250-NN
4-Pole	S400-NN4	S630-NN4	S800-NN4	S1000-NN4	S1250-NN4
Nominal Current Rating	400A	630A	800A	1000A	1250A
Frame size	TB2 E/S 630	TB2 E/S 630	TB2 1000	TB2 1000	TB2 1250
Ui/Ue AC	800/690V	800/690V	800/690V	800/690V	800/690V
Icm	9kA	9kA	17kA	17kA	32kA

TEMBREAK MINING MCCB's

125-400A Mining Breakers with Adjustable Settings



VS125-NJ

	3-Pole	VS125-NJ	VS125-NJ	VS250-NJ	VS400-NE
Nominal Current Ratings -5 to 50°C 2000m For TB2 Accessories Pg 8 For TB1 Accessories see below		020A (12,5-20)	050A (32-50)	160A (100-160)	400A (160-400)
		032A (20-23)	063A (40-63)	250A (160-250)	
			100A (63-100)		
			125A (80-125)		
Ratings:	Frame Size	TB2 S125	TB2 S125	TB2 S250	TB1 400A
	Ui / Ue	1100/1100V	1100/1100V	1100/1100V	1100/1100V
	Icu/lcs 1000V	4/4kA	6/4kA	6/4kA	18/13.5kA
	Protection:				
	Overload	0.63 - 1 x In	0.63 - 1 x In	0.63 - 1 x In	Electronic
	Short Circuit	6-10 x In	6-10 x In	6-10 x In	Electronic



S250-NJ



S1250-SE

650-1250A Mining Breakers with Adjustable Settings

	3-Pole	VS630-NE	VS800-NE	VS800-GE	VS1250-NE
Nominal Current Ratings -5 to 50°C 2000m For TB2 Accessories Pg 7.19 For TB1 Accessories see below		630A (250-630)*	800A (320-800)*	800A (320-800)*	1250A (500-1250)*
Ratings:	Frame Size	TB1 600-800A	TB1 600-800A	TB2 1250A	TB2 1250A
	Ui / Ue	1100/1100V	1100/1100V	1100/1100V	1100/1100V
	Icu/lcs 1000V	20/15kA	20/15kA	30/20kA	30/20kA
	Protection:				
	Overload	Electronic	Electronic	Electronic	Electronic
	Short Circuit	Electronic	Electronic	Electronic	Electronic

Auxiliary contacts (Ax)

Auxiliary = Aux

Alarm (Trip only) = Alarm



Accessories for VS400-NE | VS630-N6 | VS800-NE - Thermal Break 1

Frame Size		400A	600-800A
Aux	Alarm		
1 C/O	–	A212001004	A215001005
2 C/O	–	A212001014	A215001015
3 C/O	–	A212001024	A215001025
–	1 C/O	A212001069	A215001070
1 C/O	1 C/O	A212001041	A215001042
Rating		5A @ 250V; 3A @ 500V	

Undervoltage Trips (UVT)

Inst: 100-120VAC

U211002066

U215002067

200-240VAC

U211002074

U215002075

Other voltages
available ex-indent.



500mS 100-120VAC

U211002118

U215002119

200-240VAC

U211002126

U215002127

Shunt Trips (SHT)

Other voltages
available ex-indent.



100-115VAC

S211002005

S215002006

200-480VAC

S211002013

S215002014

24VDC

S212002031

S215002032

Covers

Terminal Covers 3 Pole (set of 2)

C212004016

C215004018

Interpole Barriers (set of 2)

C215004042

C215004042

Door flange

C215005160

C215005160

Mechanical Interlocks

220 - 230VAC

Rear Toggle

M211009021

M215009023

1m cable

M211009034

M215009035

Handle Mechanisms

Padlock attachment

H212011003

H215011004



DAROS handle IP54*
* Add Gasket 12180 to
make IP65

121-45-0204-01 (800A)

121-45-0204-01 (800A)

Motor Operators

Motor Operator 230VAC

MO211008042

MO215008043

Motor Operator 24VDC

MO211008053

MO215008054

TEMBREAK2 MCCB ACCESSORIES

Auxiliary Switches (AX)

	Type		TB2 LITE 160	TB2 LITE 250	TB2 125	TB2 250	TB2 400/630	TB2 1000	TB2 1250/1600
	General purpose	1 C/O	A002489	A002489	A000348	A000348	A000348	A000348	A000348
	Heavy duty	N/O	-	-	A000300	A000300	A000300	A000300	A000300
		N/C	-	-	A000317	A000317	A000317	A000317	A000317

Alarm Switches (AL)

	General purpose	1 C/O	A002557	A002557	A000744	A000744	A000744	A000744	A000744
	Right side only	1 C/O	A002564	A002564	-	-	-	-	-
	Heavy duty	N/O	-	-	A000706	A000706	A000706	A000706	A000706
		N/C	-	-	A000713	A000713	A000713	A000713	A000713

Shunt Trips (SHT)

	AC100-120V		S002649	S002649	S000904	S000904	S000904	S000904	S003905
	AC200-240V		S002656	S002656	S000911	S000911	S000911	S000911	S003912
	AC380-450V		S002663	S002663	S000928	S000928	S000928	S000928	S003929
	DC24V		S002670	S002670	S000935	S000935	S000935	S000935	S003936
	DC12V		-	-	S000973	S000973	S000973	S000973	-

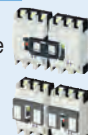
Undervoltage Trips (UVT)

	Instantaneous	AC100-120V	U002779	U002779	U001208	U001208	U001208	U002304	U002304
		AC200-240V	U003554	U003554	U001215	U001215	U001215	U002311	U002311
		AC380-450V	U002793	U002793	U001222	U001222	U001222	U002328	U002328
		DC24V	U002809	U002809	U001239	U001239	U001239	U002335	U002335
	5mS Delay 800-1600A	AC100-120V	-	-	-	-	-	U003127	U003233
		AC200-240V	-	-	-	-	-	U003134	U003240

Motor Operators

	AC100-120V		-	MO905728	MO755606	MO755705	-	-	MO735332
	AC200-240V		-	-	-	-	MO756009	MO735400	MO735356
	AC230-240V		-	MO905803	MO755620	MO755729	-	-	MO735349
	DC24V / *24-48V		-	MO905841	MO755637	MO755736	MO756016*	MO735417*	MO735363
	DC48		-	MO905889	-	-	-	-	-

Mechanical Interlocks

	Slide Type Mech. Int. (*1) 3P	-	-	M033513	M033605	M033704	M033803	M035302
	Slide Type Mech. Int. (*1) 4P	-	-	M033520	M033612	M033711	M033810	M035319
	Link Type Mech. Int. Right Side (*2)	-	-	M035005	M035104	M035265	M036309	-
	Link Type Mech. Int. Left Side 3P (*2)	-	-	M035012	M035111	M035272	M036316	-
	Link Type Mech. Int. Left Side 4P (*2)	-	-	M035029	M035128	M035289	M036323	-

(*1) Order one part between two MCCBs (*2) Order one Interlock part for each MCCB

Covers & Mounting

	Terminal cover Long/Standard 3P 1Pc	C065248	C065309	C080425	C080456	C081002	C081040	C081088
	Terminal cover Long/Standard 4P 1Pc	C065255	C065316	C080432	C080463	C081019	C081057	C081095
	Terminal cover Short 3P 1Pc	-	C065286	-	-	-	-	-
	Terminal cover Short 4P 1Pc	-	C065293	-	-	-	-	-
	Terminal cover Wide 3P 1Pc	-	-	-	-	C081347	-	-
	Terminal cover Wide 4P 1Pc	-	-	-	-	C080814	-	-
	Terminal cover Long 3P H/L 1Pc	-	-	-	C080654	-	-	-
	Terminal cover Long 4P H/L 1Pc	-	-	-	C080661	-	-	-
	Interpole barriers 1Pc	C065682	C065729	C043062	C043161	C043338	C043338	C043338
	Interpole barriers H/L 1Pc	-	-	-	C043260	-	-	-
	Door Flange	-	C044908	C044908	C044908	C045400	-	C211005161
	DIN rail Adapter	D066900	-	-	-	-	-	-

Extension Bars

	Straight Bar 3P	EB061486	EB061608	E010026	E010408	E010415	E010439	E067952
	Straight Bar 4P	EB061493	EB061615	E010040	E010163	E010422	E010446	E067969
	Offset Bar 3P	EB066948	EB061622	-	E010149	E010323	-	-
	Offset Bar 4P	EB066955	EB061639	-	-	E010330	-	-

External Operating Handles

	Door Mount IP55	H067174	H066344	H060601	H060687	H060922	H061240	H061325
	Door Mount IP65	H067198	H066382	H060649	H060724	H060960	H061288	H061363
	Breaker Mount IP3X (*IP5X)	H906053*	H907012*	H725623	H726347	H727061	H027062	H027543
	Daros Handle IP45	120-45-0110-01	120-45-0110-02	120-45-0200-01	120-45-0110-02	121-45-0202-01	121-45-0204-01	121-45-0206-01
	Gasket for Daros IP65	12180	12180	12180	12180	12180	12180	12180
	Handle Locks (Padlockable)	H064906	H064906	H037016	H037016	H037207	H037306	H035326
	Slide Locks + Hat Stand	-	-	TLSB-125	TLSB-250	TLSB-630	TLSB-800	-

AIR CIRCUIT BREAKERS - FIXED & DRAWOUT

The TempPower2 is the world's first "Double Break" ACB, having two breaking contacts per phase. The unique pole structure means that the short time withstand rating (I_{cs}, 1sec) is equal to the service short-circuit breaking capacity (I_{cs}) for all models.

I_{cu}=I_{cs}=I_{cw} for 1sec

TempPower2 ACBs have the world's smallest depth resulting in space saving in switchboards.

Simplified Ordering

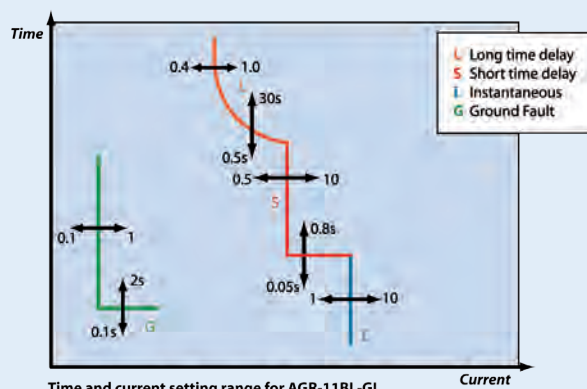
Standard part number Includes

- Protection Relay LSI (AGR-11BL-AL)
- Dial Type-2 (LCD available on request)
- 4 AB Auxiliary Contacts
- Padlockable Mechanical Close & Open Buttons
- Mechanical Close & Open Indicators
- Mechanical Indicator for Charged/Discharged State

4 Pole ACBs available on request



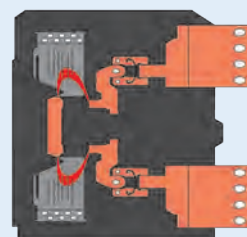
1250A



Drawout Only

- Drawout Handle
- Horizontal or Vertical Connections
- Chassis
- Safety Shutters
- Terminal Cover
- Position Indicator

Double Break Contacts



		Fixed Type		Drawout Type			
		AR 2	AR3	AR 2	AR3	AR 4	AR6
ACB Frame Size	In	1250 / 1600 / 2000A	2500 / 3200A*	1250* / 1600 / 2000A	2500 / 3200A*	4000A*	5000* / 6300A*
Rated Current	I _n	ACDC2F312HH	ACDC3F325VV	ACDC2D312HH*	ACDC3D325VV	ACDC4D340VV	ACDC6D350VV*
		ACDC2F316*	ACDC3F332VV*	ACDC2D316HH	ACDC3D332VV*	—	ACDC6D363VV*
		ACDC2F320VV	—	ACDC2D320VV	—	—	—
ACB Model 3 pole							
-5 - 40°C							
* Available Ex-Indent							
Rated Operational Voltage	U _e	690V	690V	690V	690V	690V	690V
AC Rated Insulation Voltage	U _i	1000V	1000V	1000V	1000V	1000V	1000V
I _{cs} Service Breaking Capacity	690V	50kA	65kA	50kA	65kA	85kA	85kA
	440V	65kA	85kA	65kA	85kA	100kA	120kA
	400/415V	65kA	85kA	65kA	85kA	100kA	120kA
I _{cm} Making Capacity	690V	105kA	143kA	105kA	143kA	187kA	187kA
	440V	143kA	187kA	143kA	187kA	220kA	264kA
	400/415V	143kA	187kA	143kA	187kA	220kA	264kA
I _{cw} Short - Time Withstand	1 sec	65kA	85kA	65kA	85kA	100kA	120kA
	3 sec	50kA	65kA	50kA	65kA	75kA	85kA
Times							
Total Breaking Time (sec) max		0.03	0.03	0.03	0.03	0.03	0.05
Spring Charging Time (sec) max		10	10	10	10	10	10
Closing Time (sec) max		0.08	0.08	0.08	0.08	0.08	0.08
Dimensions	W 3 pole	360mm	466mm	354mm	460mm	460mm	799mm
	H	460mm	460mm	460mm	460mm	460mm	460mm
	D	290mm	345mm	345mm	345mm	380mm	380mm

Note: The Tempower 2 range of Air Circuit Breakers can be customised to meet the requirements of any application.

Available options include:

- Motor Operators and closing coils in various voltages
- Mechanical interlock kits for co-ordination of up to 3 ACB's
- A wide variety of advanced protection relays
- Shunt trips and UVTs in various voltages
- A full range of spare parts for maintenance purposes
- * Add Terminal Configuration to code: **HH** (Horizontal), **VV** (Vertical)

Accessories

	Undervoltage Trips Drawout Type		Motor & Closing Coil for Automatic Charging and Closing		Key Locks		Mechanical Interlocks Kits
	Shunt Trips Fixed and Drawout Type		Drawout Chassis		Vertical or Horizontal Terminals		

DC FUSES & FUSE HOLDERS

Photovoltaic Fuses - 10 x 38mm - gPV				Photovoltaic Fuses - 14 x 51mm - gPV		Photovoltaic Fuses - 10 x 85mm - gPV		Photovoltaic Fuses - 14 x 85mm - gPV			
 Rated Voltage: 1000V Breaking Capacity: 20kA				 Rated Voltage: 1000V Breaking Capacity: 20kA		 Rated Voltage: 1500V Breaking Capacity: 20kA		 Rated Voltage: 1500VDC Breaking Capacity: 20kA			
Code	Rated Current	Code	Rated Current	Code	Rated Current	Code	Rated Current	Code	Rated Current		
30F1PV	1A	30F10PV	10A	30F15PV-L	15A	F1085GPV-2	2A	F1485GPV-40	40A		
30F2PV	2A	30F12PV	12A	30F20PV-L	20A	F1085GPV-4	4A	F1485GPV-50	50A		
30F3PV	3A	30F15PV	15A	30F25PV-L	25A	F1085GPV-10	10A				
30F4PV	4A	30F20PV	20A	30F32PV-L	32A	F1085GPV-16	16A				
30F5PV	5A	30F25PV	25A	30F40PV-L	40A	F1085GPV-20	20A				
30F6PV	6A	30F30PV	30A	30F50PV-L	50A	F1085GPV-30	30A				
30F8PV	8A										
10 x 38mm DIN Fuse Base - 1000VDC				14 x 51mm DIN Fuse Base - 1000VDC		10 x 85mm DIN Fuse Base - 1500VDC		10/14 x 85mm DIN Fuse Base - 1500VDC			
											
Code		Ratings		Code		Ratings		Code		Ratings	
SRD-30		1000VDC, 30A		SRD-63		1000VDC, 50A		SRD-32L		1500VDC, 30A	
								CFPV63L		1500VDC, 50A	
NH Photovoltaic Fuses - gPV								1000VDC NH Fuse Bases			
				Code	Rated Current	DIN Fuse Size					
 NH1GPV NH2XLGPV Rated Voltage: 1000V Breaking Capacity: 50kA (Size 1) 30kA (Size 2XL)				NH1GPV-32	32A	1					
				NH1GPV-40	40A	1					
				NH1GPV-50	50A	1					
				NH1GPV-63	63A	1					
				NH1GPV-80	80A	1					
				NH1GPV-100	100A	1					
				NH1GPV-125	125A	1					
				NH1GPV-160	160A	1					
				NH2XLGPV-200A	200A	2XL					
				NH2XLGPV-250A	250A	2XL					
				NH2XLGPV-315A	315A	2XL					
				NH2XLGPV-350A	350A	2XL					
				NH2XLGPV-400A	400A	2XL					
				Ratings	Size 1 1000VDC, 250A		Size 2XL 1000V, 400A				

1000VDC FUSEHOLDERS

Gcwe

Fuse Holders for DC Applications

Code	Thermal Rating	Fuse Size	Poles	Width
211PV	20A	10 x 38	1 Pole	18mm
221PV	50A	14 x 51	1 Pole	27mm

Accessories

Code	Description
21KE	Multipole assembly kits

According To

- IEC 60947-1
- IEC 60947-3

Characteristics

- 1000VDC - DC-20B
- Mounting 35mm DIN rail
- High temperature resistant plastics
- Elevated insulation characteristics

For multipole fuse holders use multipole assembly kits - 21KE

FUSE DISCONNECTORS FOR CYLINDRICAL FUSES

Din Rail Mounting
Rated Operational
Voltage: 400/690VAC
Utilisation Category :
AC-22B



Fuse size	10x38		14x51		22x58	
Type	Basic	c/w LED	Basic	c/w LED	Basic	c/w LED
1 Pole Code	DN56110-1P	DN56130-1P	DN56115-1P	DN56135-1P	DN56120-1P	DN56140-1P
2 Pole Code	DN56112-2P	DN56132-2P	DN56117-2P	DN56137-2P	DN56122-2P	DN56141-2P
3 Pole Code	DN56113-3P	DN56133-3P	DN56118-3P	DN56138-3P	DN56123-3P	DN56143-3P
4 Pole Code	DN56125-4P	-	DN56134-4P	-	DN56139-4P	-
Neutral Link	1038.N	1038.N	1451.N	1451.N	2258.N	2258.N
Rated Current	32A		63A		125A	
Terminal capacity	0.75-25mm ²		1.5-35mm ²		4-50mm ²	

Fuse Holders

Rated Voltage:
690VAC

Gawe



Fuse Size (mm)	10 x 38		14 x 51		22 x 58	
1 Pole Code	G-211		G-221		G-231	
2 Pole Code	G-212		G-222		G-232	
3 Pole Code	G-213		G-223		G-233	
3 P+N Code (c/w neutral link)	G-213N		G-223N		G-233N	



Multipole Assembly Kit for Gawe Fuse Holders

Code	Description
21KE	Assembly kit for fuse holder (10x38) (14x5)
23KE	Assembly kit for fuse holder (22x58)

NEW

FUSE DISCONNECTORS FOR NH FUSES

Rated Current	Fuse size	1 Pole Code	2 Pole Code	3 Pole Code	3 Pole Busbar Mount
160A	00	DNH10-160/1P	DNH10-160/2P	DNH1-160/30G	DNH1-160/31G
250A	0/1	DNH10-250/1P	DNH10-250/2P	DNH1-250/30G	DNH1-250/31G
400A	2	-	-	DNH1-400/30G	DNH1-400/31G
630A	3	-	-	DNH1-630/30G	DNH1-630/31G
Rated Voltage Operational Voltage		400/690VAC 440VDC	400/690VAC 440VDC	380/660VAC	380/660VAC



DNH9-160

WS-01FBJH-1P

Base Mounted Horizontal NH Fuse Switch

Code	Poles	Fuse Size	Rated Current	Rated Voltage
DNH9-160/1P	1 Pole	00	160A	400VAC
DNH9-160/2P	2 Pole	00	160A	400VAC
WS-01FBJH-1P	1 Pole	1	250A	400VAC
WS-01FBJH-2P	2 Pole	1	250A	400VAC
WS-01FBJH-3P	3 Pole	1	250A	400VAC

BUSBAR DISTRIBUTION SYSTEM

Busbar Power Distribution Systems for use in Panels

- Electrical Components are mounted directly onto the busbars
- Fast & Easy Installation
- No Drilling Required
- Easily Expandable
- Space Saving Design

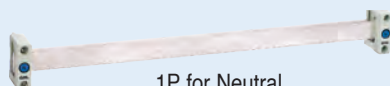
Application Examples



4P 60mm Assembly with End Caps
2 x DN52357 + DN53131 + Busbar



3P 60mm Assembly with End Caps
2 x DN52500/5 + DN53573 + Busbar



1P for Neutral
2 x DN52601 + Busbar



DN52356



DN52001 + DN53230

Tin plated Copper Busbar

Code	Busbar Size	Length	Cross Section	Current
DN51618	12 x 5	2400mm	60mm ²	200A
DN51381	12 x 5	790mm	60mm ²	200A
DN51382	12 x 5	590mm	60mm ²	200A
DN51620	20 x 5	2400mm	100mm ²	320A
DN51383	20 x 5	790mm	100mm ²	320A
DN51384	20 x 5	590mm	100mm ²	320A
DN51622	30 x 5	2400mm	150mm ²	450A
DN51387	30 x 5	790mm	150mm ²	450A
DN51388	30 x 5	590mm	150mm ²	450A
DN51624	20 x 10	2400mm	200mm ²	520A
DN51391	20 x 10	790mm	200mm ²	520A
DN51392	20 x 10	590mm	200mm ²	520A
DN51625	30 x 10	2400mm	300mm ²	630A
DN51393	30 x 10	790mm	300mm ²	630A
DN51394	30 x 10	590mm	300mm ²	630A

Busbar Supports

Support Code	End Cover Code	Busbar Spacing	Poles	Busbar Size (mm)
DN52001	DN53230	185mm	3P	30 x 5
DN52230	DN53230	185mm	3P	30 x 10
DN52500	DN53573	60mm	3P	12 / 20 / 30 x 10
DN52005	DN53573	60mm	3P	12 / 20 / 30 x 5
DN52356	-	60mm	2P	12 / 20 / 30 x 5 / 10
DN52601	-	-	1P	12 / 20 / 30 x 5 / 10
DN52357	DN53131	60mm	4P	12 / 20 / 30 x 5 / 10

Multi-Pole In/Output Connection Modules - Cable / Busbar to Busbar System Connection

Support Code	Busbar Spacing	Poles	Max Current	Busbar Size (mm)	Terminal Capacity
DN54563	60mm	3P	80A	12 / 20 / 30 x 5 / 10	1.6-16mm ²
DN54240	60mm	3P	300A	12 / 20 / 30 x 5 / 10	6-50mm ²
DN54243	60mm	3P	440A	12 / 20 / 30 x 5 / 10	35-120mm (Max)
DN54753	60mm	3P	630A	20 / 30 x 5 / 10	Laminated Busbar 30 x 20mm ²
DN54199	60mm	3P	460A	20 / 30 x 5 / 10	95-185mm ²
DN54754	60mm	3P	560A	20 / 30 x 5 / 10	120-300mm ²
DN54147	60mm	4P	560A	20 / 30 x 5 / 10	120-300mm ²
DN54162	60mm	4P	630A	20 / 30 x 5 / 10	Laminated Busbar 20-32 x 3-15mm
DN54185	185mm	3P	400A	12 / 20 / 30 x 5 / 10	120-240mm ²
DN54186	185mm	3P	630A	12 / 20 / 30 x 5 / 10	150-300mm ²



DN54240



DN54243



DN54263



DN54753
DN54199
DN54754

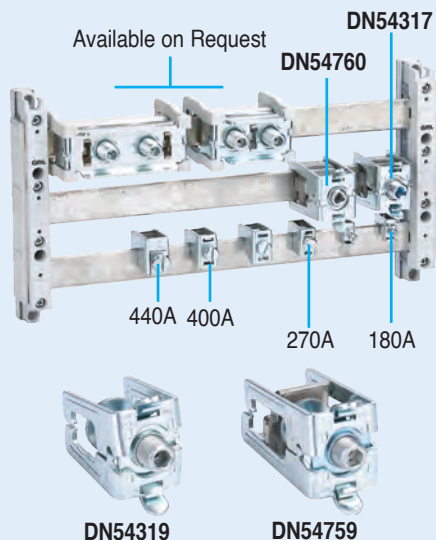


DN54147
DN54162



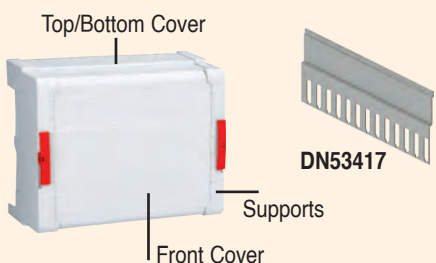
DN54185
DN54186

BUSBAR DISTRIBUTION SYSTEM



Universal 1Pole busbar connectors - Connection of In/Output Cables/Busbars to busbars

Code	Current	Connect to Busbar	Terminal Capacity
DN54284	180A	12 / 20 / 30 x 5mm	1.5-16mm ²
DN54285	270A	12 / 20 / 30 x 5mm	4-35mm ²
DN54287	400A	12 / 20 / 30 x 5mm	16-70mm ²
DN54068	440A	12 / 20 / 30 x 5mm	16-120mm ²
DN54289	180A	12 / 20 / 30 x 10mm	1.5-16mm ²
DN54290	270A	12 / 20 / 30 x 10mm	4-35mm ²
DN54292	400A	12 / 20 / 30 x 10mm	16-70mm ²
DN54203	440A	12 / 20 / 30 x 10mm	16-120mm ²
DN54317	500A	20 / 30 x 5 / 10mm	95-185mm ²
DN54760	600A	20 / 30 x 5 / 10mm	120-300mm ²
DN54319	750A	20 / 30 x 5 / 10mm	30 x 20mm ² (Max) Busbar
DN54759	800A	20 / 30 x 5 / 10mm	30 x 20mm ² (Max) Busbar



System Covers - For 60mm System

Code	Poles	Description
DN53136	3	Left & Right Support
DN53137	4	Left & Right Support
DN53555	-	1100mm Top/Bottom Cover Solid
DN53417	-	1100mm Top/Bottom Cover Slotted
DN53554	3	1100mm Front Cover
DN53599	4	1100mm FrontCover

Clip-on Covers - For Individual Busbars

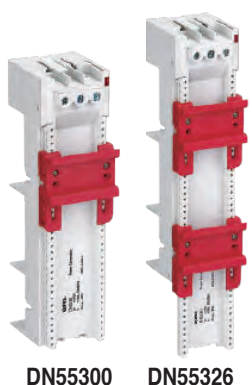
Code	Busbar Size (mm)
DN53244	12-30 x 5
DN53245	12-30 x 10



Busbar Mount Base Plates for Moulded Case Circuit Breakers - 60mm System

Base Code	Connecting Busbar*	Tembreak Frame Size	Rated Current	Poles
DN55177*	DN28000	160A TB Lite	16-160A	3P
DN55037*	DN28001	160/250A TB2 / 250A TB Lite	200-250A	3P
DN55023*	DN28002 (400A), DN28003 (580A)	400/630A TB2	250A - 580A	3P

*Flexible busbar connector to be ordered separately. Order 3pcs. Breakers available on 7.15 & 7.16



Busbar Mount Base Plates for Miniature Circuit Breakers and Switchgear - 60mm System

Code	Current	DIN Rails	Dimensions W x L
DN55300	80A	1	54 x 200mm
DN55325	80A	2	54 x 200mm
DN55301	80A	1	54 x 260mm
DN55326	80A	2	54 x 260mm
DN55310	80A	1	81 x 200mm
DN55335	80A	2	81 x 200mm
DN55313	80A	1	81 x 260mm
DN55338	80A	2	81 x 260mm



Busbar Mounted 10x38 Fuse Switch - 60mm System

Code	Max Current	Rated Voltage	Poles
DN56017	32A	690VAC	3P
DN56021	32A	690VAC	3P+N
DN56023	32A	690VAC	2P
DN56024	32A	1000VDC	2P

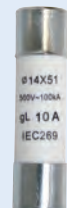


Busbar Mounted Vertical NH Fuse Disconnecter - 185mm System

Standard Code	Code c/w CT's	Fuse Size	Rated Current	Rated Voltage	Ui
DNH18-160/3L	DNH18-160/3L-A	00	160A	690VAC	1000V
DNH18-250/3L	DNH18-250/3L-A	1	250A	690VAC	1000V
DNH18-400/3L	DNH18-400/3L-A	2	400A	690VAC	1000V
DNH18-630/3L	DNH18-630/3L-A	3	630A	690VAC	1000V

c/w CT's & Ammeter Support

CYLINDRICAL FUSES & HOLDERS

Cylindrical Fuses (500V) IEC269							1500V Fuses		Glass Fuses		Ceramic Fuses		Fast Blow		
Size mm		10 x 38		14 x 51		22 x 58		10 x 85		5 x 20		5 x 20		6.3 x 32	
										250V 		250V 		250V 	
AM type UF type										135% – 1h max				200% – 5s max	
GL Fuse		1038*		1451*		2258*		F602*		F600**		F700**		F601**	
AM Fuse		AM1038*		AM1451*		AM2258*		*2A		*0.1A *3.5A		*1A		*0.25A *5A	
Ultra Fast Fuse		UF1038*		UF1451*		UF2258*		*4A		*0.25A *4A		*2A		*0.5A *6.3A	
Current		*01A *16A		**1A *16A		*10A *50A		*6.3A		*0.5A *5A		*3A		*0.75A *8A	
*Add Amp to code		*02A *20A		**2A *20A		*12A *63A		*10A		*0.8A *6.3A		*4A		*0.8A *10A	
Rated Voltage: 500V		*04A *25A		**4A *25A		*16A *80A		*16A		*1A *8A		*5A		*1A *15A	
Breaking Capacity: 100kA		*06A *32A		**6A *32A		*20A *100A				*1.25A *10A		*6.3A		*1.6A *16A	
		*08A		**8A *40A		*25A				*1.5A *15A		*10A		*2A *20A	
* For AM range only		*10A		*10A *50A		*32A				*1.6A *20A		*15A		*3A *25A	
		*12A		*12A *63A		*40A				*2A *25A		*20A		*4A *30A	
										*3A				5 Pack	
										5 Pack					
Fuse Holders 690V															
															
							* Add quantity to Code /100, /5 eg F601 1.6A/5								

				
Neutral link 1038.N		CMS2258.3		
Size mm	10 x 38	14 x 51	22 x 58	
Neutral link	1038.N	1451.N	2258.N	
1 Pole	MSC1038.1	CMS1451.1	CMS2258.1	
2 Pole	MSC1038.2	CMS1451.2	CMS2258.2	
3 Pole	MSC1038.3	CMS1451.3	CMS2258.3	
4 Pole	MSC1038.4	CMS1451.4	-	
1 N Pole	MSC1038.N	CMS1451.N	VS2258.N	

Fuse Holders				
				
P114 21.5mmØ	P115/10 12mmØ	HF-015 12mmØ	SP1120/10 (5x20) SP1132 (6.3x32)	P113/10 15mmØ
1000V	250V	250V	250V	250V
For Fuse 10 x 85 16A max.	5 x 20mm Panel Mount	5 x 20mm Panel Mount	Inline Fuse Holder	6.3 x 32mm Panel Mount

Econo Type Fuse Holders 500V			Panel Mount Fuse Holder			Open Type Fuse Holders		P.C.B. Fuse Holders	DIN Mount
10 x 38			10 x 38			10 x 38		 CQ-2005 For 5 x 20 Fuse 10A 250V	 Max 250VAC 32A
			 P1891 P1892					 HF004 For 5 x 20 Fuse	Code Pole FS10 1 Pole 6.3 x 32 Fuse Base c/w neon indication
Pole	Code w/o indication	Code with indication	Pole	Code	Specification	Pole	Code		
1 Pole	VS1038.1	LVS1038.1	1 Pole	P1891	Max. 30A 600V	1 Pole	FB1038.1		
2 Pole	VS1038.2	LVS1038.2	1 Pole	P1892	Max. 30A 600V				
3 Pole	VS1038.3	LVS1038.3							
1 N Pole	VS1038.N	—							

DIN HRC FUSE LINKS AND CARRIERS

Standard Protection Fuses with Indicator - Rated Voltage: 500V | Fault Capacity: 120kA

							
DIN Size	C00	00	0	1	2	3	
Code GL	24700-*	24585-*	24710-*	24720-*	24582-*	24588-*	
Current	*6A *10A *16A *20A *25A *32A	*35A *40A *50A *63A *80A *100A	*100A *125A *160A	*125A *160A	*200A *250A	*200A *355A *400A	*400A *500A *630A *800A
*Add Amp to code							

Semi-Conductor Protection Ultra Fast Fuses - Rated Voltage: 500V | Fault Capacity: 120kA

Code	UF24700-*	UF24585-*	UF24710-*	UF24720-*	-	-
Current	*6A *10A *16A *20A *25A *32A	*40A *50A *63A *80A *100A	*100A *125A	*125A *160A *200A *250A	-	-
*Add Amp to code						

Bolt Down Semi-Conductor Ultra Fast Fuses - Rated Voltage: 660V | Fault Capacity: 120kA

					
Code	UFB00-*	UFB00-*	UFB0-*	UFB1-*	S1000-80-00
Current	*6A *10A *16A *20A *25A *32A	*40A *50A *63A *80A *100A	*100A *125A	*125A *160A *200A *250A	For Size 00 UFB Fuses
*Add Amp to code					

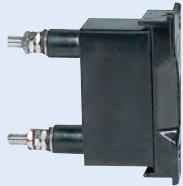
Fuse Bases for DIN HRC Fuse Links

IP00 Fuse Bases							
 Fuse Handle 24649 fits all sizes	DIN	C00	00	0	1	2	3
	1 Pole	CT-00FB	CT-00FB	CT-01FB	CT-01FB	CT-02FB	CT-03FB
	3 Pole	24645	24645	24646	24646	24647	-

Fuse & Fuse Base Accessories

Accessories							
Code	1 Pole	3 Pole	Terminal Cover	Fuse Cover	Fuse Barriers	Fuse Linking Piece	Neutral Link
Size C00 & 00	7900.N	7903.00	CT-00FBC1	CT-00FBC2	CT-00FBC3	-	NL24585
Size 0	7901.N	7903.01	CT-01FBC1	CT-01FBC2	CT-01FBC3	CT-01FBC4	NL24710
Size 1	7901.N	7903.01	CT-01FBC1	CT-01FBC2	CT-01FBC3	CT-01FBC4	NL24720
Size 2	7902.N	7903.02	CT-01FBC1	CT-01FBC2	CT-01FBC3	CT-01FBC4	NL24582
Size 3	7903.N	7903.03	CT-03FBC1	CT-03FBC2	-	CT-03FBC4	NL24588

BS HRC FUSE LINKS & CARRIERS

BS 88 Size	NS	A1	A2	A3	A4	A5			
 or  Standard Protection IEC269 – BS88									
Code ACDC	NS*	NIT*	TIA*	TIS*	TCP*	TFP*			
Code Bussman	BNS*	BNIT*	BTIA	BTIS	BTCP	BTFP			
Current (*Add Amp to code)	*2A *16A *4A *20A *6A *25A *10A *32A	*2A *4A *6A *10A *16A *20A	*2A *20A *4A *25A *6A *32A *10A *16A	*35A *63M80A *40A *63M100A *50A *63A	*80A *100A *100M200A	*125A *160A			
Voltage AC	550V	550V	660V	660V	660V	660V			
Fault capacity	80kA	80kA	80kA	80kA	80kA	80kA			
Dimensions									
Overall length	58.5mm	55.6mm	85.8mm	85.8mm	111mm	111mm			
Hole fixing centres	CLIP-IN	44.5mm	73mm	73mm	93.7mm	93.7mm			
Diameter	13.8mm	14.1mm	22.2mm	22.2mm	28mm	33.7mm			
Tag type / holes	Offset / None	One side / 2	One side / 2	One side / 2	One side / 2	One side / 2			
NS Fuse Holders									
NIT Fuse Holders - A1									
Volts	415V	415/660V	660V	550V	660V	415V			
Mounting	Screw	Screw	Busbar	DIN	Screw	Screw			
Neutral link for NS Fuse: NS-N									
Connection	Front	Rear	Rear/Front	Front	Front	Front			
Black	NSH-B	NSP-B *	NSB-B	32NNSF-B	RS20H	CSM-20H			
White	NSH-W	NSP-W *	–	32NNSF-W	–	–			
*Add 415V or 600V									
Dimensions									
Height	82.5mm	80mm	80mm	83mm	80mm	81mm			
Width	44mm	25mm	25mm	25mm	27mm	25mm			
Depth	67mm	81mm	44mm	49mm	54mm	46mm			
TIA Fuse Holders - A2									
TIS Fuse Holders - A3									
TCP Fuse Holders -A4									
Volts	660V	660V	415V	660V	660V	660V	415V	660V	415V
Mounting	Screw	Screw	Screw	Screw	Screw	Screw	Screw	Screw	Screw
									
Connection	Front	Rear/Front	Front	Front	Rear	Rear/Front	Front	Front	Front
Black	RS32HD	RS32PH	CSM-32H	RS63HD	RS63P	RS63-B	CSM-63H	RS100HD	CSM-100H
Dimensions									
Height	103mm	103mm	98mm	110mm	105mm	110mm	110mm	140mm	130mm
Width	32mm	32mm	32mm	35mm	36mm	35mm	35mm	51mm	47mm
Depth	70mm	70mm	65mm	76mm	65mm	76mm	76mm	100mm	91mm

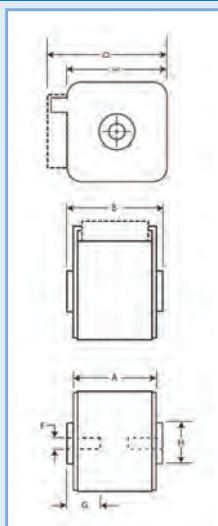
BS HRC FUSE LINKS & CARRIERS

BS 88 Size	B1	B2	B3	B4	C1/C2	C3	Fuse Holders Screw Mount Front Connection
Code ACDC	TS*	TF*	TKF*	TMF*	TM*	TTM*	RS200HD
Code Bussman	BTS*	BTF*	BTKF*	BTMF*	BTM*	BTMM*	RS200HD
Current (*Add Amp to code)	*100A	*125A *160A *200A	*250A *315A	*355A *400A	*400A	*500A *560A *630A	175 x 70 x 115 TF 200A 415V
Voltage AC	660V	660V	660V	660V	660V	660V	
Fault Capacity	80kA	80kA	80kA	80kA	80kA	80kA	CSM-200H 176 x 70 x 125
Dimensions							
Overall Length	136.5mm	136.5mm	136.5mm	136.5mm	211mm	209.6mm	
Hole Fixing Centres	111mm	111mm	111mm	111mm	133mm / 184mm	133mm / 184mm	
Diameter	33.7mm	40 / 52.6mm	60mm	60mm	60mm	74.2mm	
Tag type / Holes	Centre / 2	Centre / 2	Centre / 2	Centre / 2	Centre / 4	Centre / 4	

FUSES & HOLDERS

Bottle Fuses with blown indicator (diaized)						Automotive Fuses - 5 Pack (9.2mm Blade type) 32V	
Size	D01-E14	D02-E18	D1 - E16	D11 - E27	D111 - E33		
Standard Protection							
IEC269							
Code	E14-*	E18-*	E16-*	E27-*	E33-*	Code/Amps	Colour
Current	*2A	*20A	*2A	*2A	*35A	AF-2A/5	Dark Green
*Add Amp to code	*4A	*25A	*4A	*4A	*50A	AF-3A/5	Violet
	*6A	*35A	*6A	*6A	*63A	AF-4A/5	Pink
	*10A	*50A	*10A	*10A		AF-5A/5	Tan
	*16A	*63A	*16A	*16A		AF-7.5A/5	Brown
50kA			*20A	*20A		AF-10A/5	Red
			*25A	*25A		AF-15A/5	Blue
Voltage AC	400V	400V	500V	500V	500V	AF-20A/5	Yellow
Dimensions Overall length	36mm	36mm	50mm	50mm	50mm	AF-25A/5	Clear
Diameter	11mm	14mm	13mm	22mm	26mm	AF-30A/5	Green
						AF-35A/5	Purple
Fuse Holders						Inline Fuse Holder	
Plastic, DIN Mount Base 400VAC IEC60269, VDE0636 Order Caps separately	-						
Code 1P	-	PPD02-1	PPE16-1	-	PPE33-1	Code	V1161/5
Code 3P	-	PPD02-3	-	-	-	(7.2mm Blade type)	
Cap Code	-	E18-CAP	-	-	E33-CAP	Mini Automotive Fuses - 5 Pack	
Fuse Disconnectors - DIN Mount			Fuse Holders c/w Caps - DIN Mount			(7.2mm Blade type)	
Code 1P	-	-	E16/1B	E27/1B	E33/1B	Code/Amps	Colour
Code 2P	-	STVD02-2	-	-	-	RL-3A/5	Violet
Code 3P	-	STVD02-3	E16/3B	E27/3B	E33/3B	RL-4A/5	Pink
Spare Caps			-	E27-CAP	E33-CAP	RL-5A/5	Tan
						RL-7.5A/5	Brown
						RL-10A/5	Red
						RL-15A/5	Blue
						RL-20A/5	Yellow
						RL-25A/5	Clear
						RL-30A/5	Green

SQUARE BODY TYPE B FUSES



COOPER Bussmann



Dimensions (mm)

Size	A	B	D	E	F	G	H
01	50	51	N/A	45	M8	5	17
1	50	51	69	N/A	M8	8	20
2	50	51	N/A	61	M10	10	24
3	51	53	N/A	76	M12	10	30

High Speed Fuse - Rated Voltage: 690VAC (IEC/UL)

• Characteristic: aR • Fault Capacity: 200kA

Size	Size 01	Size 1	Size 2	Size 3
Code	170M34-*	170M44-*	170M54-*	170M64-*
Current				
	*63A	*200A	*400A	*500A
	*80A	*250A	*450A	*550A
	*100A	*315A	*500A	*630A
	*125A	*350A	*550A	*700A
	*160A	*400A	*630A	*800A
	*200A	*450A	*700A	*900A
	*250A	*500A	*800A	*1000A
	*315A	*550A	*900A	*1100A
	*350A	*630A	*1000A	*1250A
	*400A	*700A	*1100A	*1400A
	*450A	*800A	*1250A	*1500A
	*500A	*900A	-	*1600A
	*550A	-	-	-
	*630A	-	-	-

*Add Amp to code

BS ULTRA RAPID FUSE LINKS

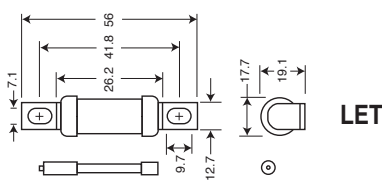
Bussmann Ultra Rapid Fuses – 240V

Code	Rated Current RMS-Amps	I ² t (Amps ² secs)			Loss
		Pre-arc	Clearing at 120V	Clearing at 240V	
25LET	25A	18	120	250	4W
32LET	32A	32	200	450	5W
35LET	35A	50	320	600	5W
50LET	50A	100	500	1.4k	7W
63LET	63A	180	1.1k	2.2k	9W
80LET	80A	300	1.9k	3.8k	10W
100LET	100A	600	3.8k	7.5k	10W
125LET	125A	600	3.8k	7.5k	16W
160LET	160A	1.1k	7k	16k	20W
180LET	180A	1.6k	12k	29k	21W

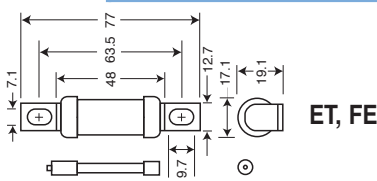
Bussmann Ultra Rapid Fuses – 690V

Code	Rated Current RMS-Amps	I ² t (Amps ² secs)			Loss
		Pre-arc	Clearing at 415V	Clearing at 660V	
25ET	25A	25	150	250	7W
32ET	32A	32	190	350	11W
40ET	40A	103	600	900	9W
45ET	45A	103	680	1.1k	11W
56ET	56A	135	950	1.5k	14W
63ET	63A	171	1.2k	2k	16W
80ET	80A	360	2.5k	4k	18W
63FE	63A	135	480	750	12W
80FE	80A	250	900	1.5k	20W
90FE	90A	360	1.3k	2.1k	20W
100FE	100A	470	1.8k	2.8k	23W
110EET	110A	600	4k	6.5k	27W
140EET	140A	1050	7k	12k	35W

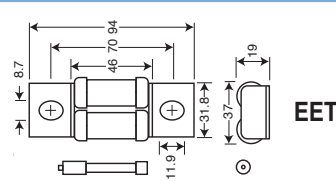
Dimensions Fuse Guide for SCRs: Fuse I²t ≤ 0.75 x SCR I²t



LET



ET, FE



EET

J-TYPE POLE FUSES



Code	SMJ30-*	SPJ30-*	SMJ31-*	SPJ31-*
Fixing Centres	82mm	82mm	92mm	92mm
Fuse Body	Ø39mm	Ø50mm	Ø39mm	Ø50mm
Rated voltage: 415V Fault Capacity: 80kA	*20A *100A *32A *125A *40A *160A *50A *200A *63A *250A *80A *315A	*355A *400A	*20A *100A *32A *125A *40A *160A *50A *200A *63A *250A *80A *315A	*355A *400A
*Add current rating to code				

Slotted type fuses designed for wedge type fuse carriers on BS applications. For use by electrical authorities in distribution pillars, open type sub-station boards, heavy duty cutouts and underground connection boxes.

PLUG TOP FUSE-LINKS

Rated Voltage: 240V
Breaking Capacity: 6kA

Cylindrical Fuses - Size: 6.45 x 24.4mm

Code	Rating	Colour Code
C180-13A	13A	Black



STOVE FUSES

Screw Capped (E27) Glass Fuses 240V

Code	Current Rating	Code	Current Rating
SF-E27-6A	6A	SF-E27-20A	20A
SF-E27-10A	10A	SF-E27-25A	25A
SF-E27-15A	15A	SF-E27-30A	30A



FIRE RATED ISOLATORS



Fire Rated Aluminium Enclosed Isolators - **IP66**, c/w Padlockable Handle for up to 3 Padlocks

F200 (300°C for 3 Hours)		F300 (300°C for 2 Hours)		AC22@ 400/415V	AC23@ 400/415V	AC23kW@ 400/415V	Dimensions HxWxD(mm)
3 Pole Code	4 Pole Code	3 Pole Code	4 Pole Code				
KEA325-FR-A2	KEA425-FR-A2	KEA325-FR3-A2	KEA425-FR3-A2	25A	25A	11KW	159 x 104 x 116
KEA340-FR-A2	KEA440-FR-A2	KEA340-FR3-A2	KEA440-FR3-A2	40A	40A	22KW	159 x 104 x 116
KEA363-FR-A4	KEA463-FR-A4	KEA363-FR3-A4	KEA463-FR3-A4	63A	40A	22KW	262 x 162 x 143
KEA380-FR-A4	KEA480-FR-A4	KEA380-FR3-A4	KEA480-FR3-A4	80A	63A	30KW	262 x 162 x 143
KEA3125-FR-A5	KEA4125-FR-A5	KEA3125-FR3-A5	KEA4125-FR3-A5	125A	100A	55KW	422 x 300 x 230
KEA3160-FR-A5	KEA4160-FR-A5	KEA3160-FR3-A5	KEA4160-FR3-A5	160A	135A	75KW	422 x 300 x 230
KEA3200-FR-A5	KEA4200-FR-A5	KEA3200-FR3-A5	KEA4200-FR3-A5	200A	200A	110KW	422 x 300 x 230

FIREMAN SWITCHES IP66



3 Pole Aluminium Side Operated Fire Switches

Code	Description	AC21@ 400/415/ 690V	AC22@ 400/415V 690V	AC23@ 400/415V	AC23kW@ 400/415V	AC23kW@ 690V	Dimensions HxWxD(mm)
KEF316A-A2S	16A 3P Side Operated	16A	16A	16A	7.5KW	11KW	157 x 103 x 80
KEF340A-A2S	63A 3P Side Operated	40A	40A	40A	22KW	22KW	157 x 103 x 80

- Fully Rated Load Break Switch, with Breaking Capacity of 8 x AC23 Rating
- Good UV Resistance
- High Impact Resistance
- Handle Padlockable in Off Position

FIRE RATED SWITCH DISCONNECTOR IP65



Designed to meet EN-12101-3 which specifies temperature/time requirements for Powered Smoke and Heat Exhaust fans in order to maintain safety under emergency conditions.

EN-12101-3/ F300:



The switch will be operational after 1 hour at 300°C.

EN-12101-3/ F400:



The switch will be operational after 2 hours at 400°C.



25A



40-63A



100 - 125A

* Four and Six Pole Only Available Ex - Indent

3 Pole Code	AB55225F3	AB55221F4	AB55241F4	AB55261F4	AB55271F4	AB55291F4
3 Pole + 1 Aux (1NO) Code	AB55225F3-A	AB55221F4-A	AB55241F4-A	AB55261F4-A	AB55271F4-A	AB55291F4-A
*4 Pole Code	AB55325F3	AB55321F4	AB55341F4	AB55361F4	AB55371F4	AB55391F4
*6 Pole Code	AB55625F3	AB55621F4	AB55641F4	AB55661F4	AB55671F4	AB55691F4
Temperature Rating to EN12101-3	F300	F400	F400	F400	F400	F400
Rated Current In	25A	25A	40A	63A	100A	125A
Thermal Rating Ith	30A	30A	50A	70A	120A	125A
Rated Operating Voltage	690VAC	690VAC	690VAC	690VAC	690VAC	690VAC
AC23kW @ 400 VAC	7.5kW					
Size L x W x H (mm)	100 x 100 x 106	130 x 130 x 124	160 x 160 x 124	160 x 160 x 124	250 x 250 x 145	250 x 250 x 145

FIREMANS EMERGENCY SWITCHES



38042



38052

For Illuminated Signs – Weatherproof – **IP65**

Code	Description	Size
38042	Double pole 16A 250V (ACI) Red	Size: 143 x 100 x 65(D) mm
38052	Four Pole 16A 250V (ACI) Grey	Size: 172 x 101 x 73(D)mm

Safety Features

- Circuit breaking possible using fireman's baton, or similar object.
- Box impossible to open when power is on
- Automatic locking device in "off" position to prevent accidental switching on
- Plastic enclosure, glow wire tested in accordance with IEC 60 695-2-1.1

ENCLOSED ONLOAD ISOLATORS

KATKO

IsoSafe



25-40A



63-125A



160-630A

ABS Enclosed Isolators - c/w Padlockable Handle for up to 3 Padlocks, Indoor Use

3 Pole Code	4 Pole Code	Protection Rating	AC21@ 400/415V	AC22@ 400/415V	AC23@ 400/415V	AC23kW@ 400/415V	Dimensions HxWxD(mm)
KEM325-YR-M2-ABS	KEM425-YR-M2-ABS	IP65	40A	25A	25A	11kW	131 x 97 x 106
KEM340-YR-M2-ABS	KEM440-YR-M2-ABS	IP65	63A	40A	40A	22kW	131 x 97 x 106
KEM363-YR-M3-ABS	KEM463-YR-M3-ABS	IP65	80A	63A	40A	22kW	190 x 144 x 131
KEM380-YR-M3-ABS	KEM480-YR-M3-ABS	IP65	100A	80A	63A	30KW	190 x 144 x 131

Polycarbonate Enclosed Isolators - c/w Padlockable Handle for up to 3 Padlocks, Outdoor Use, Good UV Resistance

3 Pole Code	4 Pole Code	Protection Rating	AC21@ 400/415V	AC22@ 400/415V	AC23@ 400/415V	AC23kW@ 400/415V	Dimensions HxWxD(mm)
KEM325-YR-M2	KEM425-YR-M2	IP66	40A	25A	25A	11KW	131 x 96 x 106
KEM340-YR-M2	KEM440-YR-M2	IP66	63A	40A	40A	22KW	131 x 96 x 106
KEM363-YR-M3	KEM463-YR-M3	IP66	80A	63A	40A	22KW	190 x 144 x 131
KEM380-YR-M3	KEM480-YR-M3	IP66	100A	80A	63A	30KW	190 x 144 x 131
KEM3100-YR-M4	KEM4100-YR-M4	IP66	125A	100A	100A	45KW	255 x 180 x 139
KEM3125-YR-M4	KEM4125-YR-M4	IP66	160A	125A	125A	55KW	255 x 180 x 139
KEM3160-YR-MF11	KEM4160-YR-MF11	IP65	160A	160A	160A	90KW	380 x 280 x 171
KEM3200-YR-MF03	KEM4200-YR-MF03	IP65	200A	200A	200A	110KW	560 x 380 x 240
KEM3250-YR-MF03	KEM4250-YR-MF03	IP65	250A	250A	250A	132KW	560 x 380 x 240
KEM3315-YR-MF03	KEM4315-YR-MF03	IP65	315A	315A	315A	160KW	560 x 380 x 240
KEM3400-YR-MF03	KEM4400-YR-MF03	IP65	400A	400A	400A	200KW	560 x 380 x 240
KEM3630-YR-MF03	KEM4630-YR-MF03	IP65	630A	630A	630A	355KW	760 x 560 x 310

KATKO



6 Pole Polycarbonate Enclosed Isolators - for Motor Starter Isolation Applications I c/w Padlockable Handle for up to 3 padlocks

6 Pole Code	Protection Rating	AC21@ 400/415V	AC22@ 400/415V	AC23@ 400/415V	AC23kW@ 400/415V	Dimensions HxWxD(mm)
KEM625-YR-M3	IP66	40A	25A	25A	11kW	190 x 144 x 131
KEM640-YR-M3	IP66	63A	40A	40A	22kW	190 x 144 x 131
KEM663-YR-M3	IP66	80A	63A	40A	22kW	190 x 144 x 131
KEM680-YR-M3	IP66	100A	80A	63A	30kW	190 x 144 x 131
KEM6100-YR-MF11	IP65	125A	100A	100A	45KW	380 x 280 x 171
KEM6125-YR-MF11	IP65	160A	125A	125A	55kW	380 x 280 x 171
KEM6160-YR-MF11	IP65	160A	160A	160A	90kW	380 x 280 x 171

KATKO



EMC-Protected Polycarbonate Enclosed Isolators - for Variable speed drive applications, c/w Padlockable Handle for up to 3 Padlocks & Glands (EMC)

3 Pole Code	Protection Rating	AC21@ 400/415V	AC22@ 400/415V	AC23@ 400/415V	AC23kW@ 400/415V	Dimensions HxWxD(mm)
KEM325-YR-M2EMC	IP66	40A	25A	25A	11KW	131 x 97 x 106
KEM340-YR-M2EMC	IP66	63A	40A	40A	22KW	131 x 97 x 106
KEM363-YR-M3EMC	IP66	80A	63A	40A	22KW	190 x 144 x 131
KEM380-YR-M3EMC	IP66	100A	80A	63A	30KW	190 x 144 x 131
KEM3100-YR-M4EMC	IP66	125A	100A	100A	45KW	225 x 180 x 139
KEM3125-YR-M4EMC	IP66	160A	125A	125A	55KW	225 x 180 x 139

ENCLOSED ISOLATORS

NEW



Surface Mounting IP65 with padlockable handle

Code	Pole	AC21 400V	AC23 400V	Terminal Capacity	Dimensions H x W x D	Qty/ Box
UKF2-63	2	-	63A	16mm ²	162 x 85 x 87	1
UKF3-63	3	-	63A	16mm ²	162 x 85 x 87	1

ALUMINIUM ENCLOSED ISOLATORS IP66

Aluminium Enclosed Isolators - c/w Padlockable Handle for up to 3 Padlocks



- Good UV Resistance
- IK08 - 25 - 160A
- IK10 - 200 - 250A

3 Pole Code	4 Pole Code	Protection Rating	AC21@ 400/415V	AC22@ 400/415V	AC23@ 400/415V	AC23kW@ 400/415V	Dimensions HxWxD(mm)
KEA325-A2	KEA425-A2	IP66	40A	25A	25A	11KW	159 x 104 x 116
KEA340-A2	KEA440-A2	IP66	63A	40A	40A	22KW	159 x 104 x 116
KEA363-A4	KEA463-A4	IP66	80A	63A	40A	22KW	262 x 162 x 143
KEA380-A4	KEA480-A4	IP66	100A	80A	63A	30KW	262 x 162 x 143
KEA3100-A4	KEA4100-A4	IP66	125A	100A	100A	45KW	262 x 162 x 143
KEA3125-A4	KEA4125-A4	IP66	160A	125A	125A	55KW	262 x 162 x 143
KEA3160-A4	KEA4160-A4	IP66	160A	160A	160A	90KW	262 x 162 x 143
KEA3200C-A5	KEA4200C-A5	IP65	200A	200A	200A	110KW	422 x 300 x 230
KEA3250C-A5	KEA4250C-A5	IP65	250A	250A	250A	132KW	422 x 300 x 230

6 Pole Aluminium Enclosed Isolators - for Motor Starter Isolation Applications | c/w Padlockable Handle for up to 3 padlocks



6 Pole Code	Protection Rating	AC21@ 400/415V	AC22@ 400/415V	AC23@ 400/415V	AC23kW@ 400/415V	Dimensions HxWxD(mm)
KEA625-A4	IP66	40A	25A	25A	11KW	262 x 162 x 143
KEA640-A4	IP66	63A	40A	40A	22KW	262 x 162 x 143
KEA663-A4	IP66	80A	63A	40A	22KW	262 x 162 x 143
KEA680-A4	IP66	100A	80A	63A	30KW	263 x 162 x 143
KEA6100-A5	IP65	125A	100A	100A	45kW	422 x 300 x 230
KEA6125-A5	IP65	160A	125A	125A	55KW	422 x 300 x 230
KEA6160-A5	IP65	160A	160A	160A	90KW	422 x 300 x 230

STAINLESS STEEL ENCLOSED ONLOAD ISOLATORS

Stainless Steel Enclosed Isolators - c/w Padlockable Handle, for up to 3 Padlocks



25-160A **IP66** AISI 316
200-630A **IP65** AISI 304



- 25-160A **IP66** AISI 316
- For Hygienic and Heavy Duty Applications
 - Corrosion Resistant

3 Pole Code	4 Pole Code	Protection Rating	AC21@ 400/415V	AC22@ 400/415V	AC23@ 400/415V	AC23kW@ 400/415V	Dimensions HxWxD(mm)
KER325-YR-RA2	KER425-YR-RA2	IP66	40A	25A	25A	11KW	180 x 120 x 115
KER340-YR-RA2	KER440-YR-RA2	IP66	63A	40A	40A	22KW	180 x 120 x 115
KER363-YR-RA4	KER463-YR-RA4	IP66	80A	63A	40A	22KW	280 x 160 x 128
KER380-YR-RA4	KER480-YR-RA4	IP66	100A	80A	63A	30KW	280 x 160 x 128
KER3100-YR-RA4	KER4100-YR-RA4	IP66	125A	100A	80A	45KW	280 x 160 x 128
KER3125-YR-RA4	KER4125-YR-RA4	IP66	160A	125A	125A	55KW	280 x 160 x 128
KER3160-YR-RA5	KER4160-YR-RA5	IP66	160A	160A	160A	90KW	420 x 300 x 161
KER3200-YR-R6	KER4200-YR-R6	IP65	200A	200A	200A	110KW	620 x 400 x 270
KER3250-YR-R6	KER4250-YR-R6	IP65	250A	250A	250A	132KW	620 x 400 x 270
KER3315-YR-R6	KER4315-YR-R6	IP65	315A	315A	315A	160KW	620 x 400 x 270
KER3400-YR-R6	KER4400-YR-R6	IP65	400A	400A	400A	200KW	620 x 400 x 270
KER3630-YR-R7	KER4630-YR-R7	IP65	630A	630A	630A	355KW	790 x 630 x 270

Full Stainless Steel Enclosed Isolators - c/w Padlockable Handle, Angled Top

3 Pole Code	4 Pole Code	Protection Rating	AC21@ 400/415V	AC22@ 400/415V	AC23@ 400/415V	AC23kW@ 400/415V	Dimensions HxWxD(mm)
KER325-RA2RS	KER425-RA2RS	IP66	40A	25A	25A	11KW	293 x 120 x 113
KER340-RA2RS	KER440-RA2RS	IP66	63A	40A	40A	22KW	293 x 120 x 113
KER363-RA4RS	KER463-RA4RS	IP66	80A	63A	40A	22KW	389 x 160 x 127
KER380-RA4RS	KER480-RA4RS	IP66	100A	80A	63A	30KW	389 x 160 x 127
KER3125-RA5RS	KER4125-RA5RS	IP66	160A	125A	125A	55KW	552 x 300 x 156
KER3160-RA5RS	KER4160-RA5RS	IP66	200A	160A	135A	75KW	552 x 300 x 156

Stainless Steel Enclosed Isolators - c/w Padlockable Handle, Angled Top & Visual Contact Status Indication

3 Pole Code	4 Pole Code	Protection Rating	AC21@ 400/415V	AC22@ 400/415V	AC23@ 400/415V	AC23kW@ 400/415V	AC23 KW @ 690V	Dimensions HxWxD(mm)
KER3250-RA6AVS	KER3250-RA6AVS	IP66	250A	250A	250A	132KW	250KW	680 x 345 x 265
KER3400-RA7AVS	KER3400-RA7AVS	IP66	400A	400A	400A	200kw	355kw	936 x 445 x 325
KER3630-RA7BVS	KER3630-RA7BVS	IP66	630A	630A	630A	355KW	630KW	1096 x 575x325
KER3800-RA10VS	KER3800-RA10VS	IP66	800A	800A	800A	400KW	800KW	1414 x 800 x375

NEW



AISI 316
250-800A

NEW

KU RANGE - ROTARY LOAD BREAK SWITCHES

Compact DIN Rail / Chassis Mount Isolators

Code 3 Pole	Code 4 Pole	AC22 @ 400/415/690V	AC23 @ 400/415V	AC23 kW @ 400/415V	3 Pole Size H x W x D	4 Pole Size H x W x D
KU325	KU425	25A	25A	11kW	71 x 36 x 62.5	71 x 47.4 x 46
KU340	KU440	40A	40A	22kW	71 x 36 x 62.5	71 x 47.4 x 46

Compact Door Mount with Black Handle - c/w padlockable handle and 42mm Shaft

RT325L42LKX50	-	25A	25A	11kW	59 x 36 x 59	-
RT340L42LKX50	-	40A	40A	22kW	59 x 36 x 59	-

Compact Door Mount with Yellow / Red Handle - c/w padlockable handle and 42mm Shaft

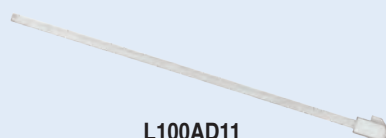
RT325L42LKX50YR	25A	25A	11kW	59 x 36 x 59	-
RT340L42LKX50YR	40A	40A	22kW	59 x 36 x 59	-

Accessories

Description	Code	Description	Code
Operating Handles - Padlockable		Extension Shafts	
Black Handle IP65	LKX50	42mm Aluminium	L42AD11
Yellow/red Handle IP65	LKX50YR	100mm Aluminium	L100AD11
Black Handle IP66	LK10	200mm Aluminium	L200AD11
Yellow/red Handle IP66	LK10YR	300mm Aluminium	L300AD11

Auxiliary Contacts - Side mount with 6.3mm Quick Connect Terminal

Auxiliary 1 NC	1NC40QC	Auxiliary 1 NO	1NO40QC
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L100AD11



1NO40QC

Large Frame Isolators - c/w Padlockable Handle & Shaft

Code 3 Pole	Code 4 Pole	AC22 @ 400/690V	AC23 @ 400/415V	AC23 kW @ 400/415V	3 Pole Size H x W x D	4 Pole Size H x W x D
KU3250L200AD12LKX100	KU4250L200AD12LKX100	250	250	132KW	100x178.5x70	100x224.5x70
KU3400LVK228LKX150	KU4400LVK228LKX150	400	400	200KW	120x203.5x85	120x247.5x85
KU3630LVK228LKX150	KU4630LVK228LKX150	630	630	355KW	160x279.4x110	160x344.4x110
KU3800LVK228LKX150	KU4800LVK228LKX150	800	800	400KW	160x279.4x110	160x344.4x110

Accessories

Description	Code 250A	Code 400A	Code 630A-800A
Door Mount Handles IP66 - Padlockable, Accepts up to 3 Locks			
Black Padlockable Handle	LKX100	LKX150	LKX150
Yellow/red Padlockable Handle	LKX100YR	LKX150YR	LKX150YR

Terminal Covers & Phase Barriers

1-pole terminal cover - High	LS250H	LS400H	LS800H
1-pole terminal cover - Flush	LS250F	LS400F	LS800F
Phase barrier - 1pc	VS250	VS400	VS800

Extension Shafts

Steel Extension Shaft	L200AD112T6 (200mm)	LVK228 (228mm)	LVK228 (228mm)
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Aux Contact Arrangements

1NO/NC Aux Contact	1.V160KU	1.V160KU	1.V160KU
2NO/2N/C Aux Contact	2.V160KU	2.V160KU	2.V160KU



KU340

KU440



RT340L42LKX50

RT325L42LKX50YR



LK10YR



LKX50YR



LK10



LKX50



KU 630-800A



LKX100



LKX150



LS250H



LS250F



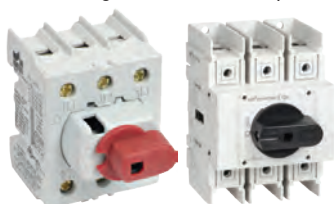
1.V160KU



2.V160KU

KU RANGE - ROTARY LOAD BREAK SWITCHES

DC Ratings Available on Request



KU(N) 25-80A KU 100-160A



KU1V KU2V



LK10 LK10YR L100AD11



LK2/OK2 LK11 LK11YR



VKA with ALK3160 Fitted RV52S



KU3/4P VV



OKA/KU
OKA/VKA

Compact DIN Rail Mount Isolators

Code 3 Pole	Code 4 Pole	AC22 @ 400/415/690V	AC23 @ 400/415V	AC23 kW @ 400/415V	AC23 kW @ 690V	3 Pole Size H x W x D	4 Pole Size H x W x D
-	KU425N	25A	25A	11kW	22kW	74 x 50 x 73	74 x 65 x 73
KU340N	KU440N	40A	40A	15kW	30kW	74 x 50 x 73	74 x 65 x 73
KU363N	KU463N	63A	63A	22kW	37kW	74 x 50 x 73	74 x 65 x 73
KU380N	KU480N	80A	80A	30kW	37kW	74 x 50 x 73	74 x 65 x 73
KU3100	KU4100	100A	100A	55kW	55kW	100 x 70 x 87	100 x 94 x 87
KU3125	KU4125	125A	125A	55kW	75kW	100 x 70 x 87	100 x 94 x 87
KU3160	KU4160	160A	160A	90kW	90kW	100 x 70 x 87	100 x 94 x 87
VKA3125N	VKA4125N	125A	100A	55kW	55kW	82 x 79 x 82	82 x 99 x 82
VKA3160N	-	160A	135A	75kW	90kW	83 x 79 x 82	-

Accessories

Description	Code KU(N) 25-80A	Code KU 100-160A	Code VKA 125-160A
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Aux Contact Arrangements

1NO / 2NC	KU1V	1.V160KU	VKA1V
2NO / 2NC	KU2V	2.V160KU	VKA2V

Extension Shafts

100mm Aluminium	L100AD11	L100AD11	L100AD11
200mm Aluminium	L200AD11	L200AD11	L200AD11
300mm Aluminium	L300AD11	L300AD11	L300AD11
200mm Alu. for LK2/OK2 only	L200/OK	-	-
100mm steel	L100AD11VT	L100AD12VT	L100AD12VT
200mm steel	L200AD11VT	L200AD12VT	L200AD12VT
300mm steel	L300AD11VT	L300AD12VT	L300AD12VT

Door Mount Handles On/Off IP65 - Padlockable, accepts up to 3 padlocks

Black Short	LK10	LK10	LK10
Yellow/Red Short	LK10YR	LK10YR	LK10YR
Black Long	LK11	LK11	LK11
Yellow/Red Long	LK11YR	LK11YR	LK11YR
Yellow/Red Economy Handle	LK2/OK2	-	-

Spreader Connections Bars

For 3 Pole	-	-	ALK3160
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Change-Over and Parallel Kits - With Padlockable Handle IP65

Change-over Kit	KU3P/4P VV	CO160KU	-
Black handle - Door Mount	LK12 1-0-2	LK12 1-0-2	-
Aux Contact (Max 2 Kits)	VV1.V	1.V160KU	-
Extension Shaft 300 mm steel	L300AD12/VT	L300AD12/VT	-
Parallel kit for 3P	RV52S	PK160KU	RV80S
Parallel kit for 4P	RV66S	PK160KU	RV104S

Door Mounting Kits - With Padlockable Handle IP65

Black for 3P	OKA/KU/LK10	-	OKA/VKA
Yellow/Red for 3P	OKA/KU/LK10Y/R	-	OKA/VKAY/R
Black for 4P	OKA/KU4P/LK10	-	OKA/VKAY4P
Yellow/Red for 4P	OKA/KU4PLK10Y/R	-	OKA/VKA4PY/R

LARGE FRAME ISOLATORS

KATKO

- Includes Fuse Covers, Excludes Terminal Covers
- Dimensions Exclude Terminal Covers



Din Fused Isolators - Switch is supplied c/w operating handle and shaft (Padlockable for 3 padlocks)

Code DIN	Fuse Size	Code BS	Fuse Size	AC22 @ 400/415/ 690V	AC23 @ 400/415V	AC23 KW @ 400/415V	AC23 KW @ 690V	Size H x W x D
KVKE332AD	10 x 38	KVKE332ABS	A1	32A	32A	15KW	-	102 x 108 x 92
KVKE363AD	00	KVKE363ABS	A2-A3	63A	63A	30KW	55KW	163 x 146 x 118
KVKE380AD	00	KVKE380ABS	A2-A3	80A	80A	40KW	75KW	163 x 146 x 118
KVKE3100AD	00	KVKE3100ABS	A2-A3	100A	100A	55KW	90KW	163 x 146 x 118
KVKE3125AD	00	KVKE3125ABS	A2-A3	125A	125A	55KW	110KW	163 x 146 x 118
KVKE3160AD	00	KVKE3160ABS	B1-B2	160A	160A	55KW	110KW	163 x 146 x 118
KVKE3200AD	1	KVKE3200ABS	B1-B3	200A	200A	110KW	160KW	217 x 234 x 128
KVKE3250AD	1	KVKE3250ABS	B1-B4	250A	250A	132KW	250KW	217 x 234 x 128
KVKE3315AD	2	KVKE3315ABS	B1-B4	315A	315A	160KW	315KW	224 x 271 x 140
KVKE3400AD	2	KVKE3400ABS	B1-B4	400A	400A	200KW	355KW	224 x 271 x 140
KVKE3630AD	3	KVKE3630ABS	B1-B4	630A	630A	355KW	500KW	236 x 293 x 151

KATKO



On Load Isolators

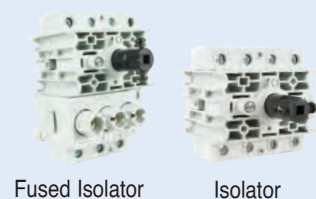
Switch is supplied, c/w operating handle and shaft (Padlockable for 3 Padlocks)

Code 3 Pole	Code 4 Pole	AC22 @ 400/415/690V	AC23 @ 400/415V	AC23 kW @ 400/415V	AC23 kW @ 690V	Size H x W x D
VKE3125	VKE4125	125A	125A	55kW	90kW	163 x 146 x 94
VKE3160	VKE4160	160A	125A	55kW	90kW	163 x 146 x 94
VKE3200	VKE4200	200A	200A	110kW	160kW	217 x 234 x 101
VKE3250	VKE4250	250A	250A	132kW	250kW	217 x 234 x 101
VKE3315	VKE4315	315A	315A	160kW	315kW	224 x 271 x 101
VKE3400	-	400A	400A	200kW	355kW	224 x 271 x 101
VKE3630	VKE4630	630A	630A	355kW	500kW	238 x 307 x 101

Accessories for VKE and KVKE

Code	Description	Code	Description
Aux Contact Arrangements			
KVKEC1V	1N0/1NC for KVKE 32A	KVKE1V	1N0/1NC for KVKE/VKE 63-630A
KVKEC2V	2N0/2NC for KVKE 32A	KVKE2V	2N0/2NC for KVKE/VKE 63-630A
Shafts			
L100AD12T	100mm for KVKE/VKE 63-160A	LVK228	228mm for KVKE/VKE 200-630A
L200AD12T	200mm for KVKE/VKE 63-160A	LVK320	300mm for KVKE/VKE 200-630A
L300AD12T	300mm for KVKE/VKE 63-160A		
Handles On/Off IP65 - Padlockable			
LK12	Black for KVKE/VKE 125-160A	LK13YR	Yellow & Red for KVKE/VKE 200-400A
LK12YR	Yellow & Red for KVKE/VKE 125-160A	LK14	Black for KVKE/VKE 200-630A
LK13	Black for KVKE/VKE 200-400A	LK14YR	Yellow & Red for KVKE/VKE 200-630A
Terminal Covers			
LS125	VKE 125-160A & KVKE 63-160A	LS400	VKE 315-400A & KVKE 315-400A
LS250	VKE 200-250A & KVKE 200-250A	LS630	VKE 630A & KVKE 630A
Spreader Connection Bars			
KVKEALK1603P	Spreader bars for KVKE/VKE 125-160A 3 Pole Switches		
KVKEALK1604P	Spreader bars for KVKE/VKE 125-160A 4 Pole Switches		

COMPACT ISOLATORS



Fused Isolator

Isolator



Fused Isolator & Isolator supplied with IP65 ON/OFF Handle & Shaft

Amps AC22		16A	32A	50A	63A	100A
Fused Isolator	3P	VQ413800	VQ422900	-	-	-
	4P	VQ416100	VQ425200	-	-	-
Isolator only	3P	VQ362700	VQ380900	VQ355100	VQ356900	VQ358500
	4P	VQ365000	VQ383300	-	-	-

16A Fused isolators use 10x38 fuses, 32A Fused isolators use 14x51. For fuses see page 7.27

Accessories for XNF Type Fused Isolator

Code	Description
VC301000	1 NO aux contact block 16A
VC300200	1 NC aux contact block 16A
VC303600	1 NO aux contact block 32A
VC302800	1 NC aux contact block 32A



VC301000
VC300200
VC303600
VC302800

ONLOAD ISOLATORS

Open Isolators 25...3150A Ue 690V

25-63A supplied with red/yellow padlockable handle and 70mm shaft. For longer shaft order separately. 125-3150A supplied with padlockable pistol-grip handle and shaft. *DIN Rail mounting: 25 & 40A (3 & 4 pole) plus 63A 3 pole. All others are screw mounting.*



25-63A D Type



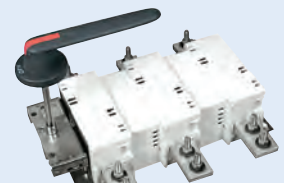
125A D Type



125-160A DM Type



200-800A



1000-1250A

Code		Ie 690V	AC23 415VAC	DC21 Current / Poles in Series				kW @ 415V	Dimensions 3/4 Pole (mm)	
3 Pole	4 Pole			48VDC	110VDC	220VDC	440VDC		W/W x H x D	Panel Depth
CSSD0025D3	CSSD0025D4	25A	25A	25A/3	25A/3	25A/3	-	7.5kW	51/62 x 60 x 68	85-110
CSSD0040D3	CSSD0040D4	40A	40A	40A/3	40A/3	40A/3	-	11kW	51/62 x 60 x 68	85-110
CSSD0063D3	-	63A	63A	63A/3	63A/3	63A/3	-	18.5kW	53 x 84 x 68	85-110
-	CSSD0063D4	63A	63A	63A/3	63A/3	63A/3	-	18.5kW	110 x 97 x 75	85-110
CSSD0125D3	CSSD0125D4	125A	125A	125A/3	125A/3	125A/3	-	37kW	110 x 97 x 75	85-110
CSSD0125DM3	CSSD0125DM4	125A	125A	125A/2	125A/3	125A/3	-	55kW	190/230 x 142 x 90	135-235
CSSD0160DM3	CSSD0160DM4	160A	160A	160A/2	160A/3	160A/3	-	75kW	190/230 x 142 x 90	135-235
CSSD0200DM3	CSSD0200DM4	200A	200A	200A/2	200A/2	200A/2	200A/3	90kW	193/292 x 175 x 105	190-300
CSSD0250DM3	CSSD0250DM4	250A	250A	250A/2	250A/2	250A/2	250A/3	132kW	193/292 x 175 x 105	190-300
CSSD0315DM3	CSSD0315DM4	315A	315A	315A/2	315A/2	315A/2	315A/3	160kW	193/292 x 175 x 105	190-300
CSSD0400DM3	CSSD0400DM4	400A	400A	400A/2	400A/2	-	-	200kW	230/292 x 175 x 105	190-300
CSSD0630K3	CSSD0630K4	630A	630A	630A/1	630A/2	-	-	315kW	244/306 x 223 x 130	220-325
CSSD0800K3	CSSD0800K4	800A	720A	800A/1	800A/2	-	-	355kW	260/330 x 223 x 130	220-325
CSSD1000K3	CSSD1000K4	1000A	1000A	-	-	-	-	400kW	343/423 x 372 x 125	240-310
CSSD1250K3	CSSD1250K4	1250A	1000A	-	-	-	-	400kW	343/423 x 372 x 125	240-310
CSSD1600K3	CSSD1600K4	1600A	1000A	-	-	-	-	400kW	461/600 x 352 x 125	240-310
CSSD1800K3	CSSD1800K4	1800A	1000A	-	-	-	-	400kW	461/600 x 352 x 125	240-310
CSSD2000K3	CSSD2000K4	2000A	1000A	-	-	-	-	400kW	468/607 x 352 x 271	340-450
CSSD2500K3	CSSD2500K4	2500A	1000A	-	-	-	-	400kW	468/607 x 352 x 271	340-450
CSSD3200K3	CSSD3200K4	3200A	1000A	-	-	-	-	400kW	468/607 x 352 x 271	340-450

Values not specified are available on application

Enclosed Isolators IP54

For any of the above to be supplied in a steel enclosure, add the prefix "E-". and -G (Grey) or -O (Orange) e.g. E-CSSD0160DM3-G

Accessories



CSSDZX49



CSSDZX108



CSSDZX111BL



CSWH80S6



CSWH145S12



CSP6X165



CSSDB1/2/3/4



CSSDZW6/1

Switch size	25-40D	63D	125D*	125-160DM	200-315DM	400-800D/K	1000-1800K
Spare Handle – Black padlockable (IP54)	CSSDZX111BL	CSSDZX111BL	CSSDZX111BL	CSWH80S6*	CSWH80S8*	CSWH145S12*	CSWH220S12*
Shaft – Size (mm)	5² x 150	5² x 150	5² x 150	6² x 165	8² x 240	12² x 255	12² x 255
Code	CSP5X150	CSP5X150	CSP5X150	CSP6X165	CSP8X240	CSP12X255	CSP12X255
Support bracket	CSSDB1 (70mm)	CSSDB1 (70mm)	CSSDB2 (70mm)	CSSDB4 (70mm) CSSDB3 (150mm)	-	-	-
Changeover mechanism	CSSDZW6/1†	CSSDZW6/1†	CSSDZW6/1†	-	-	CSSFZW11	-
Aux. Contact – 1NO + 1NC	CSSDZX49	CSSDZX79	CSSDZX52	CSSDZX1	CSSDZX37	CSSDZX33	CSSDZX35
3P 2NO + 2NC	CSSDZX50	CSSDZX80	CSSDZX53	CSSDZX16	CSSDZX38	CSSDZX34	CSSDZX36
Aux. Contact – 1NO + 1NC	CSSDZX87	CSSDZX55	CSSDZX55	CSSDZX1	CSSDZX37	CSSDZX33	CSSDZX35
4P 2NO + 2NC	CSSDZX88	CSSDZX56	CSSDZX56	CSSDZX16	CSSDZX38	CSSDZX34	CSSDZX36
Terminal shrouds	-	-	SF701	SF702	SF703	-	-

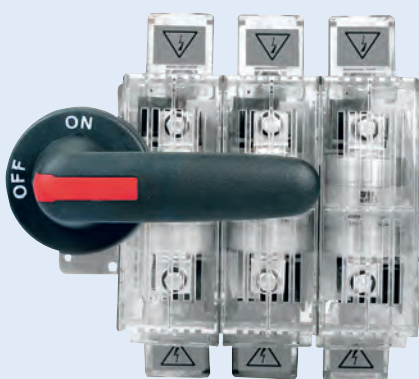
*These are supplied with the isolator and are offered for spares purposes only.

*For pistol Grip Handle use CSP5/6X160 Shaft + CSWH80S6 Handle

†Order CSP6X165 Shaft. CSWH80S6 Pistol Grip Handle supplied

FUSED ISOLATORS

Enclosed
Version
Electric
Orange



BS Type Fuse DIN Type Fuse

All open fused isolators supplied complete with **IP54** black handle and shaft. **NOTE:** Fuses to be ordered separately

3 Pole DIN Code	DIN Fuse Size	3 Pole BS Code	BS Fuse Size	AC23A 415V	kVAR Switching Capacity	DIN Dimensions H x W x D	BS Dimensions H x W x D	Enclosure Size H x W x D
CSSDF032D	00	CSSDF032B	A2	32A	15	107 x 168 x 126	107 x 168 x 126	300 x 250 x 200
CSSDF063D	00	CSSDF063B	A3	63A	30	107 x 168 x 126	107 x 168 x 126	300 x 250 x 200
CSSDF100D	00	CSSDF100B	A4	100A	45	142 x 190 x 134	142 x 190 x 134	300 x 250 x 200
CSSDF125D	00	CSSDF125B	A4	125A	50	142 x 190 x 134	142 x 190 x 134	300 x 250 x 200
CSSDF160D	00	CSSDF160B	B2	160A	60	142 x 212 x 135	142 x 212 x 134	300 x 250 x 200
CSSDF200D	1	CSSDF200B	B2	200A	90	200 x 261 x 184	200 x 261 x 184	500 x 400 x 200
CSSDF250D	1	CSSDF250B	B3	250A	115	200 x 261 x 184	200 x 261 x 184	500 x 400 x 200
CSSDF315D	2	CSSDF315B	B3	315A	145	200 x 285 x 184	200 x 285 x 184	500 x 400 x 200
CSSDF400D	2	CSSDF400B	B4	400A	180	200 x 285 x 184	200 x 285 x 184	500 x 400 x 200
CSSDF630D	3	CSSDF630B	C2	630A	250	320 x 343 x 223	320 x 403 x 223	800 x 600 x 320
CSSDF800D	3	CSSDF800B	C3	800A	310	320 x 373 x 223	320 x 403 x 223	800 x 600 x 320

For enclosed fused isolators **IP55** add prefix "**E-**" to the above codes, eg. **E-CSSDF200D**

- The fused isolators conform to IEC 60947 part 3.
- Max operational voltage without derating 690V.
- Utilisation category AC23A@415V.
- Rated insulation voltage U_i 750V. Impulse withstand voltage U_{imp} 12kV.
- Conventional enclosed thermal rating 45°C

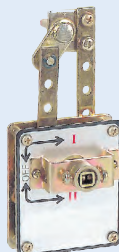
Accessories



CSSDFZX 33/36



CSSDFZX 1/16



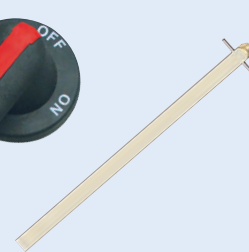
CSSFZW



CSWH80S6



CSWH145S12



CSP

Isolator Size	Auxiliary Contact 1NO+1NC	Auxiliary Contact 2NO+2NC	Change Over Mechanism	Spare Handle Code IP54	Spare Shaft Code
32-63A	CSSDFZX 46	CSSDFZX 32	CSSFZW1	CSWH80S6	CSP6X165
100-160A	CSSDFZX 1	CSSDFZX 16	CSSFZW1	CSWH80S6	CSP6X165
200-400A	CSSDFZX 33	CSSDFZX 34	CSSFZW12/1	CSWH145S12	CSP12X255
630-800A	CSSDFZX 35	CSSDFZX 36	CSSFZW12/1	CSWH220S12	CSP12X255

ISOLATORS



NOTE: Accessories supplied with switch
YGL 125A-630A - YU-3, YU-8
YGL 800A-3150A - YU-4, YU-5, YU-10, YU-12,
YU-13, YU-14
See accessories for additional spare parts
on page 7.43



Enclosed Version

Isolators - c/w Handle and 360mm Shaft

Open Code 3 Pole	Open Code 4 Pole	KA RMS For 1 Sec	AMPS AC21 @ 400V	AMPS AC23 @ 400V	Dimensions 3 Pole (H x W x D)	Dimensions 4 Pole (H x W x D)
YGL-0125/3P	YGL-0125/4P	10	125	125	135 x 140 x 120	135 x 170 x 120
YGL-0160/3P	YGL-0160/4P	10	160	160	135 x 140 x 120	135 x 170 x 120
YGL-0200/3P	YGL-0200/4P	12	200	200	165 x 180 x 140	165 x 230 x 140
YGL-0250/3P	YGL-0250/4P	12	250	250	165 x 180 x 140	165 x 230 x 140
YGL-0315/3P	YGL-0315/4P	20	315	315	234 x 230 x 140	234 x 290 x 140
YGL-0400/3P	YGL-0400/4P	20	400	340	234 x 230 x 185	234 x 290 x 185
YGL-0500/3P	YGL-0500/4P	25	500	425	250 x 230 x 185	250 x 290 x 185
YGL-0630/3P	YGL-0630/4P	25	630	500	250 x 230 x 185	250 x 290 x 185
YGL-0800/3P	YGL-0800/4P	50	800	630	328 x 378 x 354	328 x 492 x 440
YGL-1000/3P	YGL-1000/4P	50	1000	800	328 x 378 x 354	328 x 492 x 440
YGL-1250/3P	YGL-1250/4P	50	1250	1000	336 x 378 x 354	336 x 492 x 440
YGL-1600/3P	YGL-1600/4P	50	1600	1250	336 x 378 x 354	336 x 492 x 440
YGL-2000/3P	YGL-2000/4P	50	2000	1250	422 x 378 x 354	422 x 492 x 440
YGL-2500/3P	YGL-2500/4P	50	2500	1250	432 x 378 x 354	432 x 492 x 440
YGL-3150/3P	YGL-3150/4P	50	3150	1250	442 x 378 x 354	442 x 492 x 440

NOTE: For enclosed models add: **EO-** (Orange) or **EG-** (Grey) to beginning of code eg.: **EO-YGL-0160/3P**

NEW

LARGE FRAME ISOLATORS

Gewe

According to standards:
IEC 60947-3

- Positive break indication
- High thermal and mechanical strength
- Large number of electrical and mechanical operations

On Load Isolator - Handle to be ordered separately | Designed to operate in demanding conditions. Operational categories of AC-22, AC-23 and DC-21 circuits up to 500V.



3 Pole 200A



3 Pole 800A



4 Pole 200A



4 Pole 800A

3P Code	4P Code	AC-23A @415V	DC-21B @500V	Frame size	Size 3 Pole H x W x D	Size 4 Pole H x W x D
55AC3012	55AC4012	125A	125A	B3	135 x 140 x 115	135 x 170 x 115
55AC3016	55AC4016	160A	125A	B3	135 x 140 x 115	135 x 170 x 115
55AC3020	55AC4020	200A	160A	B4	160 x 180 x 115	160 x 230 x 115
55AC3025	55AC4025	250A	200A	B4	160 x 180 x 115	160 x 230 x 115
55AC3040	55AC4040	400A	400A	B5	235 x 230 x 160	235 x 290 x 160
55AC3063	55AC4063	630A	500A	B5	260 x 230 x 160	260 x 290 x 160
55AC3080	55AC4080	800A	800A	B6	321 x 280 x 166	321 x 360 x 166
55AC3100	55AC4100	1000A	1000A	B6	321 x 280 x 166	321 x 360 x 166
55AC3120	55AC4120	1250A	1250A	B7	288 x 372 x 166	288 x 492 x 166
55AC3160	55AC4160	1600A	1600A	B7	288 x 372 x 166	288 x 492 x 166
55AC3200	55AC4200	2000A	1250A	B8	380 x 372 x 226	380 x 492 x 226
55AC3250	55AC4250	2500A	1250A	B8	380 x 372 x 226	380 x 492 x 226
55AC3320	55AC4320	3200A	1250A	B8	380 x 372 x 226	380 x 492 x 226

Accessories



Phase Barrier



Terminal Screen



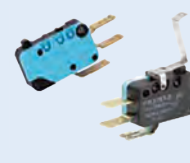
Direct Handle



Panel Mount Handle



Extension Shaft



Auxiliary Contact

Frame Size		B3 125-160A	B4 200-250A	B5 400-630A	B6 800-1000A	B7 1250-1600A	B8 2000-3200A
Phase Barriers (Set for top or bottom)	3-Pole	S053B3	S053B4	S053B5	-		
	4-Pole	S054B3	S054B4	S054B5	-		
Terminal	3-Pole	S063B3	S063B4	S063B5	S063B6	S063B7	S063B8
Screen	4-Pole	S064B3	S064B4	S064B5	S064B6	S064B7	S064B8
Direct Handle		S11B1	S11B2	S11J1	S11J4		S11S5
Panel Mount Handle		S13S2			S13S4		S13S5
Extension Shaft	200mm	S081020			S081520		S083020
	320mm	S081032			S081532		S083032
	400mm	-			S081540		-
	500mm	S081050			-		-
Auxiliary Contact		1st NO/NC contact 26990031 2nd NO/NC contact 26990032					

ONLOAD ISOLATOR, CHANGEOVER & BYPASS SWITCHES

Supplied c/w black operating handle. Door mount kits to be ordered separately.



63-80A



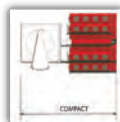
100-125A



160-250A



Integrated Link



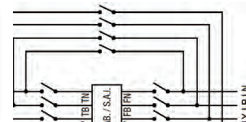
Compact Size

Integrating two circuits on each cell permits an extra compact size. Up to 40% space saving to conventional switches.



Installation

Designed to mount directly on DIN Rail.



Bypass Switch
Switching Scheme for use with Voltage Stabilisers.

Code 3 Pole Isolator Switch	Code 4 Pole Isolator Switch	Code 3 Pole Changeover Switch	Code 4 Pole Changeover Switch	Code 4 Pole Bypass Switch	Rated Voltage	AC21 kW @ 400V	AC23 kW @ 400V	Max cable size (mm²)	Terminal Type
LQ5526100	LQ5536100	LQ5626100	LQ5636100	L271F6100	690VAC	37	22	16-50	Screw
LQ5528100	LQ5538100	LQ5628100	LQ5638100	-	690VAC	45	30	16-50	Screw
LQ5527100	LQ5537100	LQ5627100	LQ5637100	L271F7100	690VAC	55	30	16-50	Screw
LQ5529100	LQ5539100	LQ5629100	LQ5639100	L271F9100	690VAC	75	37	16-50	Screw
LQ552A100	LQ553A100	LQ562A100	LQ563A100	L271FA100	690VAC	90	52	70	Bolt
LQ552B100	LQ553B100	LQ562B100	LQ563B100	L271FB100	690VAC	110	65	95	Bolt
LQ552C100	LQ553C100	LQ562C100	LQ563C100	L271FC100	690VAC	132	-	120	Bolt

Accessories

Code	Description
LK1720006	Door Mounting Kit with 200mm shaft & door interlock
LK0800006	Door Mounting Kit 200mm shaft extension
AK1200146	Black/Grey Padlockable Handle for 63-80A
AK1200148	Black/Grey Padlockable Handle for 100-250A
AK1200526	Red/Yellow Padlockable Handle for 63-80A
AK1200528	Red/Yellow Padlockable Handle for 100-250A
AK2240006	IP65 Gasket for Door Mounted Handles



LK1720006



AK2240006



AK1200146



AK1200526



AK1200148



AK1200528

NEW

LARGE FRAME MANUAL CHANGE OVER SWITCHES

According to standards:
IEC 60947-3
IEC 60947-6-1

- Positive break indication
- High thermal & mechanical strength
- Large number of electrical and mechanical operations
- Auxiliary contacts for control circuits can be added as an accessory



Manual Change Over - Handle and bridging bars to be ordered separately

Designed to operate in commercial and industrial applications in switching motor or high inductive loads and mixed resistive and inductive loads, including moderate overloads.

3P Code	4P Code	AC-22A @415V	AC-23A @415V	Frame size	Size 3 Pole H x W x D	Size 4 Pole H x W x D
56AC3016	56AC4016	160A	160A	B3	135 x 221 x 148	135 x 251 x 148
56AC3020	56AC4020	200A	200A	B3	135 x 221 x 148	135 x 251 x 148
56AC3025	56AC4025	250A	250A	B4	160 x 262 x 148	160 x 312 x 148
56AC3040	56AC4040	400A	400A	B4	170 x 262 x 148	170 x 312 x 148
56AC3063	56AC4063	630A	630A	B5	260 x 319 x 225	260 x 379 x 225
56AC3080	56AC4080	800A	800A	B6	321 x 386 x 298	321 x 466 x 298
56AC3100	56AC4100	1000A	1000A	B6	321 x 386 x 298	321 x 466 x 298
56AC3120	56AC4120	1250A	1250A	B6	330 x 386 x 298	330 x 466 x 298
56AC3160	56AC4160	1600A	1600A	B7	288 x 478 x 298	288 x 598 x 298
56AC3200	56AC4200	2000A	2000A	B8	380 x 478 x 425	380 x 598 x 425
56AC3250	56AC4250	2500A	2500A	B8	380 x 478 x 425	380 x 598 x 425
56AC3320	56AC4320	3200A	3200A	B8	380 x 478 x 425	380 x 598 x 425

Accessories

*3P includes 3 Shrouds.
4P includes 4 Shrouds.
For top or bottom protection.



Terminal Shroud



Bridging Bars



Direct Handle



Panel Mount Handle



Extension Shaft



Auxiliary Contact

Frame Size	B3 160-200A	B4 250A	B4 400A	B5 630A	B6 800-1000A	B6 1250A	B7 1600A	B8 2000-3200A
Terminal	3-Pole*	S073B3	S073B4	S073B5	-	-	-	-
Shroud	4-Pole*	S074B3	S074B4	S074B5	-	-	-	-
Bridging Bars 1-Pole	S0410020	S0410025	S0410040	S0410063	S0410080	S0410120	S0410160	(See bridging bar table - page 7.44)
Direct Handle		S11J2				S11J3		S11S5
Panel Mount Handle		S13S2C				S13S4C		S13S5C
Extension	200mm	S081020				S081520		S083020
Shaft	320mm	S081032				S081532		S083032
Auxiliary Contact NO / NC					41090021 (1st & 2nd Position)			Included

CHANGEOVER SWITCHES - CS SERIES



Enclosed Version



CO1

Change Over Switches - Supplied with shaft and Padlockable "pistol grip" handle. $U_e = 690V$

Code 3 Pole	Code 4 Pole	Ith	AC22 @415V	AC23 @415V	Dimensions 3/4 Pole (mm)	
					W/W x H x D	Panel Depth
CSCS0160DM3CO	CSCS0160DM4CO	160A	160A	160A	215/255 x 142 x 182	195-295
CSCS0200DM3CO	CSCS0200DM4CO	200A	200A	200A	248/309 x 163 x 242	255-355
CSCS0250DM3CO	CSCS0250DM4CO	250A	250A	250A	248/309 x 163 x 242	255-355
CSCS0315DM3CO	CSCS0315DM4CO	315A	315A	315A	248/309 x 163 x 242	255-355
CSCS0400K3CO	CSCS0400K4CO	400A	400A	400A	282/352 x 205 x 262	300-400
CSCS0630K3CO	CSCS0630K4CO	630A	630A	630A	282/352 x 223 x 262	300-400
CSCS0800K3CO	CSCS0800K4CO	800A	800A	720A	282/352 x 223 x 262	300-400
CSCS1000K3CO	CSCS1000K4CO	1000A	1000A	800A	396/496 x 352 x 260	330-450
CSCS1250K3CO	CSCS1250K4CO	1250A	1250A	800A	396/496 x 352 x 260	330-450
CSCS1600K3CO	CSCS1600K4CO	1600A	1600A	800A	396/496 x 352 x 260	330-450
CSCS2500K3CO	CSCS2500K4CO	2500A	1800A	-	436/556 x 352 x 552	590-690
CSCS3150K3CO	CSCS3150K4CO	3150A	1800A	-	436/556 x 352 x 552	590-690

Prefix the above codes with "E". e.g. **E-CSCS0630K4CO** for **IP54** Steel Enclosed Changeover Switches

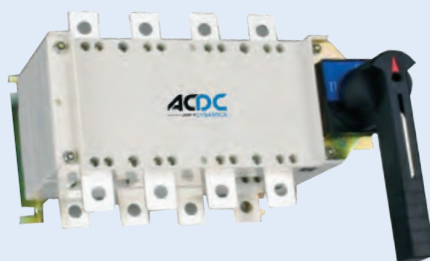
Suffix the above codes with "O". e.g. **E-CSCS0630K4CO-O** for Orange Enclosures

For rating below 160A/64kVA, use 2 isolators plus changeover mechanism. See page 7.38

Auxiliary Contacts				Spare Handle & Handle Shafts	
Code	Contact Config	For Switch Type	Qty/ Switch	Code	Description
CSCSZX1-U	1NO + 1NC	160A	1	CCOH145S8	Spare Handle for 63 - 315A
CSCSZX1-L	1NO + 1NC	160A	1	CCOH220S12	Spare Handle for 400 - 1800A
CSCSZX3-U	2NO + 2NC	160A	1	CSDA6	Spare Handle for 2000 - 3150A
CSCSZX3-L	2NO + 2NC	160A	1	CSP8X200	Handle Shaft for 63 - 315A
CSCSZX2	1NO + 1NC	200 - 3150A	2	CSP12X205	Handle Shaft for 400 - 1800A
CSCSZX4	1NO + 2NC	200 - 3150A	2	CSP12X305	Handle Shaft for 2000 - 3150A

CHANGE OVER SWITCHES

Each switch is supplied c/w:
Padlockable Handle, Extension
shaft, Joint sleeve, Face plate,
Door plate, Ext shaft joint and
Copper Bridge Pieces.
Switch includes auxiliary contacts:
2NO & 2NC.
See accessories for additional
spare parts on page 7.43



Enclosed Version

Open Code 3 Pole	Open Code 4 Pole	KA RMS For 1 Sec	AMPS AC21 @ 400V	AMPS AC23 @ 400V	Open Dimensions		Closed Dimensions	
					3 Pole	4 Pole	3 Pole	4 Pole
YGLZ1-0125/3P	YGLZ1-0125/4P	10	125	125	135 x 274 x 166	135 x 304 x 215	400 x 350 x 380	450 x 350 x 380
YGLZ1-0160/3P	YGLZ1-0160/4P	10	160	160	135 x 274 x 166	135 x 304 x 215	400 x 350 x 380	450 x 350 x 380
YGLZ1-0200/3P	YGLZ1-0200/4P	12	200	200	165 x 347 x 250	165 x 396 x 250	470 x 420 x 400	570 x 420 x 400
YGLZ1-0250/3P	YGLZ1-0250/4P	12	250	250	165 x 347 x 250	165 x 396 x 250	470 x 420 x 400	570 x 420 x 400
YGLZ1-0315/3P	YGLZ1-0315/4P	20	315	315	234 x 432 x 325	234 x 492 x 325	600 x 580 x 500	720 x 580 x 500
YGLZ1-0400/3P	YGLZ1-0400/4P	20	400	340	234 x 432 x 325	234 x 492 x 325	600 x 580 x 500	720 x 580 x 500
YGLZ1-0500/3P	YGLZ1-0500/4P	25	500	425	250 x 432 x 325	250 x 492 x 325	600 x 580 x 500	720 x 580 x 500
YGLZ1-0630/3P	YGLZ1-0630/4P	25	630	500	250 x 432 x 325	250 x 492 x 325	600 x 580 x 500	720 x 580 x 500
YGLZ1-0800/3P	YGLZ1-0800/4P	50	800	630	328 x 583 x 390	328 x 698 x 390	950 x 820 x 550	950 x 820 x 550
YGLZ1-1000/3P	YGLZ1-1000/4P	50	1000	800	328 x 583 x 390	328 x 698 x 390	950 x 820 x 550	950 x 820 x 550
YGLZ1-1250/3P	YGLZ1-1250/4P	50	1250	1000	336 x 583 x 390	336 x 698 x 390	950 x 820 x 550	950 x 820 x 550
YGLZ1-1600/3P	YGLZ1-1600/4P	50	1600	1250	336 x 583 x 390	336 x 698 x 390	1340 x 820 x 600	1540 x 820 x 600
YGLZ1-2000/3P	YGLZ1-2000/4P	50	2000	1250	422 x 583 x 568	422 x 698 x 568	1440 x 820 x 770	1540 x 820 x 770
YGLZ1-2500/3P	YGLZ1-2500/4P	50	2500	1250	432 x 583 x 568	422 x 698 x 568	1440 x 820 x 770	1540 x 820 x 770

NOTE: For enclosed models add: **EO-** (Orange) or **EG-** (Grey) to beginning of code eg.: **EG-YGLZ1-0160/3P**

NOTE: For enclosed models **EO-** dimensions to be confirmed with panel workshop

MOTORISED CHANGE OVER SWITCHES

Supplied with manual operating handle.

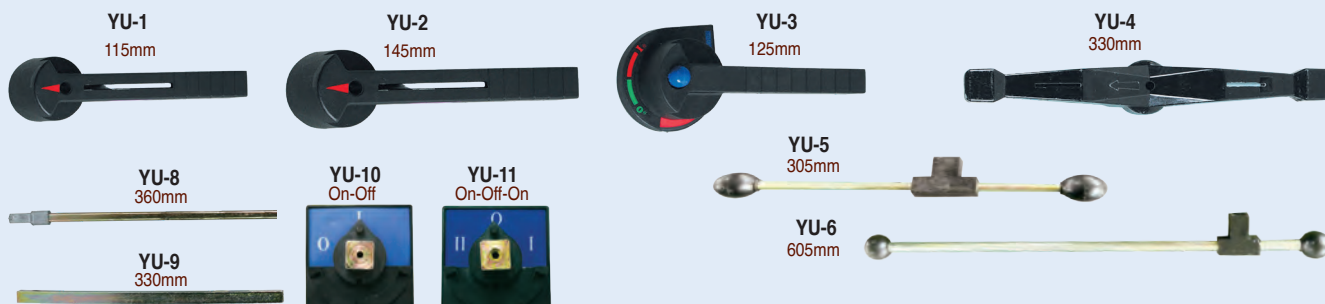
Copper Bridge Pieces included



YES1 type Automatic Transfer Switch (ATS) Integrates control logic an electromechanical switch into a single housing without the requirements of additional controllers. Internally fitted with Aux contact 1 NO + 1 NC.

Open Type Code - 3 Pole	Open Type Code - 4 Pole	KA RMS for 1 Second	Internal Motor Watts	Switch Over Time in Secs	Amps @ AC21 400V	Amps @ AC23 400V	Open 4 Pole Size H x W x D (mm)
YES1-0100GA3P	YES1-0100GA4P	7	300	0.45	100	100	106 x 279 x 169
YES1-0160GA3P	YES1-0160GA4P	9	325	0.45	160	160	135 x 322 x 230
YES1-0250GA3P	YES1-0250GA4P	9	325	0.45	250	250	163 x 406 x 230
YES1-0400GA3P	YES1-0400GA4P	13	355	0.6	400	400	234 x 552 x 230
YES1-0630GA3P	YES1-0630GA4P	13	355	0.6	630	400	328 x 760 x 284
YES1-1000GA3P	YES1-1000GA4P	26	440	1.2	1000	800	328 x 760 x 363
YES1-1250GA3P	YES1-1250GA4P	50	440	1.2	1250	800	328 x 760 x 363
YES1-1600GA3P	YES1-1600GA4P	50	440	1.2	1600	1000	328 x 760 x 363
YES1-2000GA3P	YES1-2000GA4P	55	600	1.8	2000	2000	422 x 800 x 542
YES1-2500GA3P	YES1-2500GA4P	55	600	1.8	2500	2500	432 x 800 x 542
YES1-3200GA3P	YES1-3200GA4P	55	600	2.4	3200	3000	442 x 800 x 542

ACCESSORIES FOR YGL - YGLZ - YES1 SERIES



Code	Description
YU-1	Spare Handle for YES1-0040 to 0100 / YGLZ1-0125
YU-2	Spare Handle for YES1-0125 to 0160 / YGLZ1-0160 to 0630
YU-3	Spare Handle for YGL-0125 to 0630
YU-4	Spare Handle for YGL-800 to 3150 / YGLZ1-800 to 3150
YU-5	Spare Handle for YES1-0400 to 630A
YU-6	Spare Handle for YES1-800 to 3200A
YU-8	Spare Shaft for YGL-0125 to 0630 (360mm)
YU-9	Spare Shaft for YGL-0800 to 3150 / YGLZ1-0125 to 3150 (330mm)
YU-10	Face Plate On-Off (YGL)
YU-11	Face Plate On-Off-On (YGLZ1)
YU-12	Door Plate
YU-13	Extension Joint
YU-14	Joint Sleeve

NEW

LARGE FRAME MOTORISED CHANGEOVER SWITCHES

According to Standards:
IEC 60947-3
IEC 60947-6-1

Motorised Changeover Switch - Manual override with handle

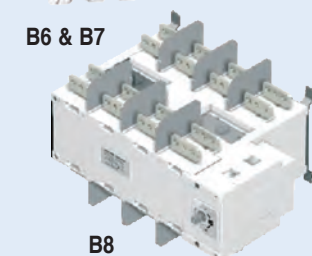
Designed to operate in commercial and industrial applications with external ATS/AMF control. They enable on-load transfer of two 3-phase supplies via potential-free contacts with incoming signaling from external controllers or relays.



B4 & B5



B6 & B7

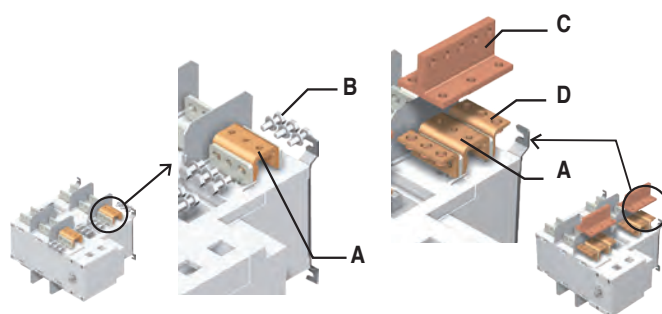


B8

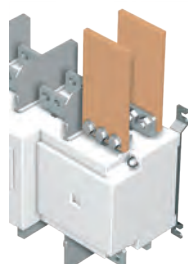
Code	AC-23B @415VDC	DC-21B @440VDC	No. of Poles	Frame Size	Size (mm) H x W x D
56MAC4025	250A	200A	4 Pole	B4	160 x 378 x 244
56MAC4040	400A	200A	4 Pole	B4	170 x 378 x 244
56MAC4063	630A	630A	4 Pole	B5	260 x 437 x 221
56MAC4080	800A	800A	4 Pole	B6	370 x 584 x 391
56MAC4100	1000A	1000A	4 Pole	B6	370 x 584 x 391
56MAC4120	1250A	1250A	4 Pole	B6	370 x 584 x 391
56MAC4160	1250A	1250A	4 Pole	B7	380 x 716 x 391
56MAC4200	1600A	-	4 Pole	B8	288 x 716 x 512
56MAC4250	1600A	-	4 Pole	B8	288 x 716 x 512
56MAC4320	1600A	-	4 Pole	B8	288 x 716 x 512

Features

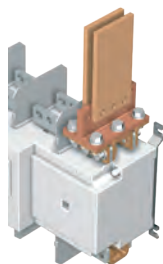
- Integrated watchdog relay - realtime monitoring of product status.
- Integrated auxiliary contacts for each position (NO)
- Wide motor supply range: 208-277VAC

Accessories

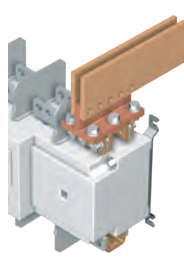
Size	Frame	Bridging Bars 1-Pole	Terminal Shrouds 4 Pole	Bridging Bar Table 2000A - 2500A			
				Code	Part	Description	Size
250A	B4	S0410025	S074B4	S04A1200	A	Connection Bar	2000A-2500A
400A	B4	S0410040	S074B4	S04B1200	B	Bolt Kit 35mm	2000A-2500A
630A	B5	S0410063	S074B5	S04C1200	C	T Bar + Bolt Kit	2000A-2500A
800A	B6	S0410080	-	S04D1200	D	Bracket + Bolt Kit	2000A-2500A
1000A	B6	S0410080	-	Bridging Bar Table 3200A			
1250A	B6	S0410120	-	Code	Part	Description	Size
1600A	B7	S0410160	-	Included	A	Connection Bar	3200A
2000A	B8	See Bridging Bar Table	-	S04B1200	B	Bolt Kit 35mm	3200A
2500A	B8			S04C1200	C	T Bar + Bolt Kit	3200A
3200A	B8			S04D1200	D	Bracket + Bolt Kit	3200A

Connection Configurations & Required Accessories

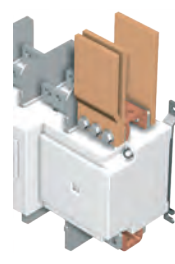
Connection 1 - B



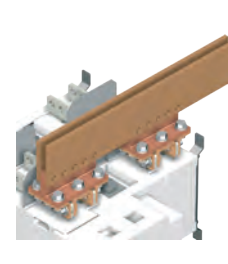
Connection 2 - A+C+D



Connection 3 - A+C+D



Connection 4 - A+B

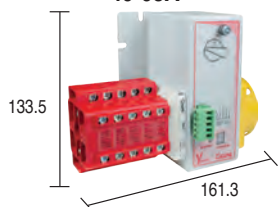
Connection 5 -
2xA + 2xC + 2xD

MOTORISED CHANGEOVER SWITCHES 63-250A

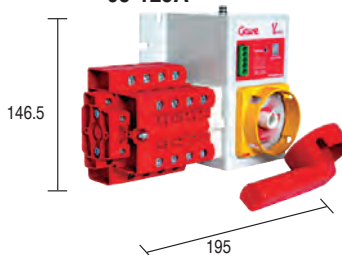
Rated Voltage: 690VAC@50Hz
All current ratings above 80A are AC23

Auxiliary contacts included.
No external bridging required.
Padlockable manual operating handle included.

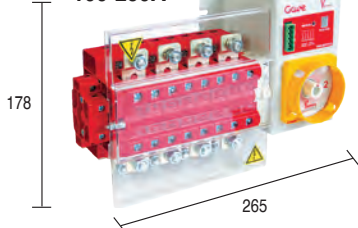
40-63A



63-125A



160-250A



New 3 Source motorised changeover switch is used in applications where three sources of supply are available, e.g:

- 0 = Off
- 1 = Mains
- 2 = Generator
- 3 = Battery Back-Up



Automatic Phase Selection to maintain power supply continuity for single phase loads.
Especially useful in telecoms rectifier applications

Note: All 230 VAC units are supplied with one Power Supply.

4P Code	Rated Current	KVA @ 400V AC21	AC23 @ 400VAC	Terminal Capacity mm ²
---------	---------------	-----------------	---------------	-----------------------------------

Motor Volts 12VDC

Y-5634101	40A (AC21)	28kVA	18.5kW	10 - 25mm ² Cage
Y-5635101	63A (AC22)	44kVA	-	10 - 25mm ² Cage
YL5636101	63A (AC23)	44kVA	37kW	16 - 50mm ² Cage
YL5638101	80A	55kVA	45kW	16 - 50mm ² Cage
YL5637101	100A	69kVA	45kW	16 - 50mm ² Cage
YL5639101	125A	87kVA	55kW	16 - 50mm ² Cage
YL563A101	160A	111kVA	60kW	70mm ² M8 Stud
YL563B101	200A	139kVA	75kW	95mm ² M8 Stud
YL563C101	250A	173kVA	90kW	120mm ² M8 Stud

Motor Volts 24VDC

Y-5634201	40A (AC21)	28kVA	18.5kW	10 - 25mm ² Cage
Y-5635201	63A (AC22)	44kVA	-	10 - 25mm ² Cage
YL5636201	63A (AC23)	44kVA	37kW	16 - 50mm ² Cage
YL5638201	80A	55kVA	45kW	16 - 50mm ² Cage
YL5637201	100A	69kVA	45kW	16 - 50mm ² Cage
YL5639201	125A	87kVA	55kW	16 - 50mm ² Cage
YL563A201	160A	111kVA	60kW	70mm ² M8 Stud
YL563B201	200A	139kVA	75kW	95mm ² M8 Stud
YL563C201	250A	173kVA	90kW	120mm ² M8 Stud

Motor Volts 230VAC

Y-5634301	40A (AC21)	28kVA	18.5kW	10 - 25mm ² Cage
Y-5635301	63A (AC22)	44kVA	-	10 - 25mm ² Cage
YL5636301	63A (AC23)	44kVA	37kW	16 - 50mm ² Cage
YL5638301	80A	55kVA	45kW	16 - 50mm ² Cage
YL5637301	100A	69kVA	45kW	16 - 50mm ² Cage
YL5639301	125A	87kVA	55kW	16 - 50mm ² Cage
YL563A301	160A	111kVA	60kW	70mm ² M8 Stud
YL563B301	200A	139kVA	75kW	95mm ² M8 Stud
YL563C301	250A	173kVA	90kW	120mm ² M8 Stud

3 Sources Motorised Changeover Switch 12VDC

YL3936101	63A (AC23)	44kVA	37kW	10 - 25mm ² Cage
YL3938101	80A	55kVA	45kW	16 - 50mm ² Cage
YL3937101	100A	69kVA	45kW	16 - 50mm ² Cage
YL3939101	125A	87kVA	55kW	16 - 50mm ² Cage
YL393A101	160A	111kVA	60kW	70mm ² M8 Stud
YL393B101	200A	139kVA	75kW	95mm ² M8 Stud
YL393C101	250A	173kVA	90kW	120mm ² M8 Stud

3 Sources Motorised Changeover Switch 24VDC

YL3936201	63A (AC23)	44kVA	37kW	10 - 25mm ² Cage
YL3938201	80A	55kVA	45kW	16 - 50mm ² Cage
YL3937201	100A	69kVA	45kW	16 - 50mm ² Cage
YL3939201	125A	87kVA	55kW	16 - 50mm ² Cage
YL393A201	160A	111kVA	60kW	70mm ² M8 Stud
YL393B201	200A	139kVA	75kW	95mm ² M8 Stud
YL393C201	250A	173kVA	90kW	120mm ² M8 Stud

Motorised R-O-S-T Phase selector Switch 12VDC

YL6114101	40A (AC21)	28kVA	18.5kW	10 - 25mm ² Cage
YL6116101	63A (AC23)	44kVA	37kW	10 - 25mm ² Cage
YL6117101	100A	69kVA	45kW	16 - 50mm ² Cage
YL6119101	125A	87kVA	55kW	16 - 50mm ² Cage

Power Supply for above Change Over Switches

Output					Input
Code	DC Voltage	Rated Current	Rated Power	Voltage Adj. Range	Voltage Range
DRA30-12	12V	2.5A	30	10.8~13.2V	90~265VAC
DRA60-24	24V	2.5A	30	24~28V	90~265VAC

NEW

MOTORISED CHANGEOVER SWITCHES



2 Pole

3 Pole



4 Pole

Domestic ATS - Automatically changes over to back-up power source in the event of a power failure. Compact design suitable for installation in existing domestic DIN distribution boards

Code	Rated Voltage	Rated Current	Control Voltage	C/O Time	No. of Poles	Size (mm) L x H x D
W2R-ATS-100A-2P	230VAC	100A	230VAC	≤50mSec.	2P	108 x 104 x 79
W2R-ATS-100A-3P	400VAC	100A	230VAC	≤50mSec.	3P	125 x 104 x 79
W2R-ATS-100A-4P	400VAC	100A	230VAC	≤50mSec.	4P	143 x 104 x 79

- Ui: 690VAC
- Auxiliary Contacts: 2 x C/O (5A@230VAC)
- Utilisation Category: AC33B
- Rated Operating Temperature: -5 to 40°C

AUTO / MANUAL ATS

MCB Based Motorised Change Over Switch



Code	Rated Voltage	Current	Control Voltage	C/O Time (sec)	Poles	Size L x H x D
YEQ1-M1-25A/4P	400V	25A	230VAC	1.5 - 3	4	218 x 135 x 115
YEQ1-M1-40A/4P	400V	40A	230VAC	1.5 - 3	4	218 x 135 x 115
YEQ1-M1-63A/4P	400V	63A	230VAC	1.5 - 3	4	218 x 135 x 115

- Mechanical and electrical interlock
- Auto / Manual Operation
- LED indication
- Operating Life >10000 operations
- Overload Protected

EXTENDED RANGE

AUTOMATIC TRANSFER SWITCHES & AUTOMATIC MAINS FAILURE IP65

Automatic Transfer Switch

ATS - Fitted with **ATS-10** controller which monitors the primary supply, in the event of failure the controller will actuate a c/o contact (i.e., alarm contact or start signal) when a secondary supply is detected the controller will switch to the secondary supply.

- Suitable for industrial, commercial, and domestic 3ph+N 400V applications
- Automatic Transfer Switch provide automatic switching between primary and secondary supply (i.e., Mains, generator, solar or other).
- The controller will not provide engine control and monitoring.



Automatic Mains Failure

AMF - Fitted with **TRANS-AMF** controller (see page 11.34 for controller specs), **GENCHARGE** (12/24VDC) battery charger (see Main Catalogue for charger specs) and 4 pole motorized change-over switch.

- The automatic mains failure unit is designed to monitor mains and generator supply, control generator via fuel solenoid and starter, monitoring engine temperature and oil pressure. (not fitted with an automatic voltage regulator)
- Suitable for industrial, commercial, and domestic 3ph+N 400V applications



Gave 4P	ATS 040	ATS 063	ATS 080	ATS 100	ATS 125	ATS 160	ATS 200	ATS 250	-	-	-	-
YES1 4P	-	-	-	ATS 100Y	-	ATS 160Y	-	ATS 250Y	ATS 400	ATS 630	ATS 1000	ATS 1250
YES1 3P	ATS 040Y3	ATS 063Y3	ATS 080Y3	ATS 100Y3	-	ATS 160Y3	-	ATS 250Y3	ATS 400-3	ATS 630-3	ATS 1000-3	ATS 1250-3
AMF 4P	AMF 040*	AMF 063*	AMF 080*	AMF 100*	AMF 125*	AMF 160*	AMF 200*	AMF 250*	AMF 400*	AMF 630*	AMF 1000*	AMF 1250*
Rated Current	40A	63A	80A	100A	125A	160A	200A	250A	400A	630A	1000A	1250A
Generator	28kVA	44kVA	55kVA	69kVA	87kVA	111kVA	139kVA	173kVA	277kVA	436kVA	692kVA	866kVA
Size (mm)	600 x 400 x 260		700 x 500 x 260		800 x 600 x 260	1000 x 600 x 320			1200 x 800 x 320	1400 x 1000 x 300	1900 x 800 x 600	
Panel Colour	Orange (Red, Grey available on request)										Orange (Grey available on request)	

POLYCARBONATE ENCLOSED CHANGE OVER SWITCHES



TKM225UVV



KEM325VV

Polycarbonate Enclosed Change Over Switches IP66

2 & 3 Pole Code	No of Poles	4 Pole Code	AC21 @ 400/415/690V	AC22 @ 400/415/690V	AC23 @ 400/415V	AC23 KW @ 400/415V	AC23 KW @ 690V	Enclosure Size (mm) H x W x D
TKM240UVV-M2	2P	-	40A	40A	40A	7.5kW	-	130 x 97 x 106
KEM325VV-M3	3P	-	40A	25A	25A	11kW	22kW	190 x 144 x 131
KEM340VV-M3	3P	KEM440VV-M3	63A	40A	40A	22kW	30kW	190 x 144 x 131
KEM363VV-M3	3P	KEM463VV-M3	80A	63A	40A	22kW	37kW	190 x 144 x 131
KEM380VV-M3	3P	KEM480VV-M3	100A	80A	63A	30kW	37kW	190 x 144 x 131
KEM3125CO-MF11	3P	KEM4125CO-MF11	160A	125A	100A	55kW	55kW	380 x 280 x 171
KEM3160CO-MF11	3P	KEM4160CO-MF11	200A	160A	135A	75kW	90kW	380 x 280 x 171

Features

- Self Extinguishing Material
- Padlockable Handle, accepts upto 3 padlocks
- Interlocked Handle
- IEC 60947-3
- Good UV Resistance



ENCLOSED CHANGE OVER SWITCHES

EVB Type - Enclosed Rotary Change Over Switches IP65



EVB Type



EVB-L Type

Amps AC21	Amps AC23	2-Pole 1-0-2	3-Pole 1-0-2	4-Pole 1-0-2	4P Size (mm) H x W x D
20A	15A	-	EVB1403	EVB1478	100 x 100 x 80
32A	25A	-	56SW332C/O	EVB1510	190 x 140 x 70
40A	32A	-	56SW340C/O	EVB1528	190 x 140 x 70
63A	44A	EVB1263*	56SW363C/O*	EVB1529*	240 x 190 x 90
75A	63A	-	EVB1429*	EVB1544*	240 x 190 x 90
100A	80A	-	EVB1003*	EVB1004*	240 x 190 x 130

*Add 'L' to code for LED Indication (White for Mains On, Blue for Generator run).

ESDC Type - DB Type Changeover Switches IP65



ESDC Type

Amps AC22A	2-Pole 1-0-2	3-Pole 1-0-2	4-Pole 1-0-2	Size (mm) H x W x D
63A	ESDC-2063	ESDC-3063	ESDC-4063	260 x 298 x 140
100A	ESDC-2100	ESDC-3100	ESDC-4100	260 x 298 x 140
120A	ESDC-2125	ESDC-3125	ESDC-4125	260 x 298 x 140

ESDCL Type - Enclosed Modular Change Over Switches IP65 - c/w pilot lights and buzzer



ESDCL Type

Amps AC22A	2-Pole 1-0-2	3-Pole 1-0-2	4-Pole 1-0-2	Size (mm) H x W x D
63A	ESDCL-2063	ESDCL-3063	ESDCL-4063	285 x 410 x 140
100A	ESDCL-2100	ESDCL-3100	ESDCL-4100	285 x 410 x 140
120A	ESDCL-2125	ESDCL-3125	ESDCL-4125	285 x 410 x 140

White LED for Mains On, Blue LED for Generator run, Buzzer on when main supply is restored and generator is still running.

ESDCTL Type - Enclosed Change Over Switches IP65 - c/w pilot lights and buzzer



ESDCTL Type

Amps AC21	Amps AC23	2-Pole 1-0-2	3-Pole 1-0-2	4-Pole 1-0-2	Size (mm) H x W x D
63A	40A	ESDCTL-2063	ESDCTL-3063	ESDCTL-4063	285 x 410 x 140
100A	80A	ESDCTL-2100	ESDCTL-3100	ESDCTL-4100	285 x 410 x 140
125A	80A	ESDCTL-2125	ESDCTL-3125	ESDCTL-4125	285 x 410 x 140

White for Mains On, Blue for Generator run.

ENCLOSED CHANGEOVER SWITCHES IP65

Rated Voltage: 690VAC
Ratings below 63A are AC21
Ratings from 62A-250A are AC23

Gewe



16-32A



40-100A



100-125A



160-250A

Metal Enclosures c/w Gland Plate

Code 3P	AB562-16A	AB562-25A	AB562-32A	AB562-40A	AB562-63A	AB562P-100A	AB562-100A	AB562-125A	AB562-160A	AB562-200A	AB562-250A
Code 4P	AB563-16A	AB563-25A	AB563-32A	AB563-40A	AB563-63A	AB563P-100A	AB563-100A	AB563-125A	AB563-160A	AB563-200A	AB563-250A
Rated Current	16A	25A	32A	40A	63A	100A	100A	125A	160A	200A	250A
Thermal Rating (Ithe)	20A	25A	40A	40 A	70A	100A	100A	125A	160A	200A	250A
Terminal Capacity	2.5-6 mm²	2.5-6 mm²	10-25mm²	10-25mm²	16-50mm²	16-50mm²	16-50mm²	16-50mm²	70mm²	95mm²	120mm²
Enclosure	Plastic						Steel - Grey RAL7032				
Size (mm) H x W x D	190 x 140 x 70			240 x 190 x 90	240 x 190 x 130		300 x 300 x 200		400 x 300 x 200	500 x 400 x 200	600 x 400 x 260

CHANGE OVER SWITCHES



VB1232
Door Mount



VB1544
Door Mount



VG9906
Chassis Mount



CR0320006
22mm Door Mount

Change Over Switch Door Mount - 2 Pole

AC21 AC23A	16A 12A	32A 25A	40A 32A	63A 50A	75A 63A	115A 100A	200A 160A
2 Pole	—	—	VB1232	VB1263	—	—	—

Change Over Switch Door Mounting - 3 & 4 Pole

3 Pole	VB1353	VB1395	VB1403	VB1363	VB1429	VB1437	VB1445
4 Pole	VB1478	VB1510	VB1528	VB1463	VB1544	VB1551	VB1569
Plate Size (mm)	48 x 48	64 x 64	64 x 64	64 x 64	64 x 64	96 x 96	96 x 96

Change Over Switches Chassis Mount - 3 & 4 Pole

3 Pole	-	VG9906	ZL0496	-	ZL0505	VF2993	VF3058
4 Pole	-	ZL0538	ZL0546	-	VD9446	VF3033	VF3066
Plate Size (mm)	-	75 x 75	105 x 105	-	105 x 105	130 x 130	130 x 130

Change Over Switches 22mm Ø Door Mount

AC21 AC23A	16A 12A	32A 25A	40A 32A
2 Pole	CR0200006	CR0320006	CR0400006
3 Pole	CR0200007	CR0320007	CR0400007
4 Pole	CR0200039	CR0320039	CR0400039
Plate Size (mm)	48x48	48x48	48x48

ROTARY ISOLATORS & CAM SWITCHES



Door Mounting Isolators (Switch supplied complete with operating handle)

AC21 AC23A	16A 12A	20A 16A	32A 25A	40A 32A	75A 63A	115A 100A
1 Pole	VB0728	VB0751	VB0769	VB0777	VB0793	-
2 Pole	VB0801	VB0835	VB0843	VB0850	VB0876	-
3 Pole	VB0884	VB0918	VB0926	VB0934	VB0959	VB0967
4 Pole	VB1056	VB1080	VB1018	VB1106	VB1122	VB1130
Plate Size (mm)	48x48	48x48	64x64	64x64	64x64	96x96

Isolator 22mm Ø Door Mount (48x48)

AC21 AC23	16A 12A	20A 16A	32A 25A	40A 32A
2 Pole	CR0160002	CR0200002	CR0320002	CR0400002
3 Pole	CR0160003	CR0200003	CR0320003	CR0400003
4 Pole	CR0160004	CR0200004	CR0320004	CR0400004

Isolator padlockable Front Door Mount (67x67)

AC21 AC23	16A 12A	20A 16A	32A 25A	40A 32A
3 Pole	CR01600G3	CR02000G3	CR03200G3	CR04000G3
4 Pole	CR01600G4	CR02000G4	CR03200G4	CR04000G4

Motor Control Switches - Door Mount

*For motors with capacitor

AC-1	AC23	1 Phase * Reversing	3 Phase Reversing	Star-delta	Plate Size (mm)
16A	12A	VB1940	VB1593	VB1841	48 x 48
20A	16A	-	VB1619	VB1866	48 x 48
32A	25A	-	VB1635	VB1882	64 x 64
40A	32A	-	VB1643	VB1890	96 x 96
50A	40A	-	VB1650	VB1908	96 x 96

Motor Control Switches - 22mm Door Mount

16A	12A	-	CR0160008	48 x 48
20A	16A	-	CR0200008	48 x 48
32A	25A	-	CR0320008	48 x 48
40A	32A	-	CR0400008	48 x 48

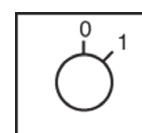
Stepping Switches Rear Door Mount

Description	AC21A	Code	Plate Marking	Size (mm)
1 Pole 3 step+ off	16A	VB3045	0-1-2-3	48 x 48
1 Pole 5 step+ off	16A	VG5325	0-1-2-3-4-5	48 x 48
1 Pole 7 step+ off	16A	VF3783	0-1-2-3-4-5-6-7	48 x 48

On - Off Switches 20Amps AC23 Switches spring return to centre

2 Poles	4 Poles	6 Poles
R201-23	R202-23	R203-23

Eschutcheon Plate



ROTARY ISOLATORS

Isolators

Rated Voltage:
690VAC.

c/w Operating handle and plate. All supplied as door mount. For other mounting options see accessories.



Simple 'click' front plate fixing.

IP20 finger safe.

Rated Current	ITH	AC21 @ 400VAC	AC23 @ 400VAC	1 Pole Code	Panel Depth	2 Pole Code	Panel Depth	3 Pole Code	Panel Depth	4 Pole Code	Panel Depth	Plate Size
12A	16A	7.5kW	4kW	AN5500000	30.5mm	AN5510000	30.5mm	AN5520000	40.5mm	AN5530000	40.5mm	48x48mm
16A	20A	11kW	5.5kW	AN5501000	30.5mm	AN5511000	30.5mm	AN5521000	40.5mm	AN5531000	40.5mm	
25A	32A	15kW	7.5kW	AN5502000	30.5mm	AN5512000	30.5mm	AN5522000	40.5mm	AN5532000	40.5mm	
32A	40A	18.5kW	11kW	AN5503100	36.3mm	AN5513100	36.3mm	AN5523100	48.3mm	AN5533100	48.3mm	
40A	50A	22kW	18.5kW	AN5504100	36.3mm	AN5514100	36.3mm	AN5524100	48.3mm	AN5534100	48.3mm	60x60mm
63A	70A	37kW	22kW	AN5506100	46mm	AN5516100	46mm	AN5526100	62.5mm	AN5536100	62.5mm	
80A	100A	45kW	30kW	-	-	AN5518100	46mm	AN5528100	62.5mm	AN5538100	62.5mm	
100A	100A	55kW	30kW	-	-	AN5517100	46mm	AN5527100	62.5mm	AN5537100	62.5mm	
125A	125A	75kW	37kW	-	-	-	-	AN5529100	62.5mm	AN5539100	62.5mm	66x66mm
160A	160A	90kW	52kW	-	-	-	-	AN552A100	95.5mm	AN553A100	95.5mm	
200A	200A	110kW	65kW	-	-	-	-	AN552B100	95.5mm	AN553B100	95.5mm	
250A	250A	132kW	-	-	-	-	-	AN552C100	95.5mm	AN553C100	95.5mm	

Spare Handles

for Isolators

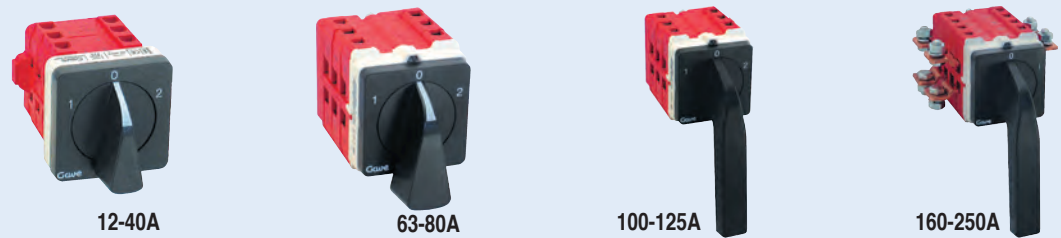


Rated Current	Black Handle c/w Plate 0-1	White Handle c/w Plate 0-1	Padlockable	Padlockable	Padlockable (3 lock)	Padlockable (3 lock)
12-25A	AR0386040	AR0386010	AK1200143	AK1200523	AK1300143	AK1300523
32-40A	AR0386140	AR0386110	AK1200143	AK1200523	-	-
63-80A	AR0386640	AR0386610	AK1200146	AK1200526	-	-
100-250A	AR0386840	AR0386810	AK1200148	AK1200528	-	-

CHANGE OVER SWITCHES

Rated Voltage:
690VAC

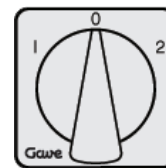
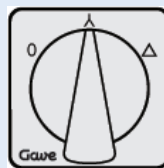
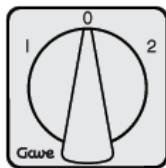
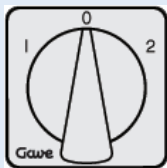
c/w Operating handle and plate. All supplied as door mount. For other mounting options see accessories.



Rated Current	ITH	AC21 @ 400VAC	AC23 @ 400VAC	2 Pole Code	Panel Depth	3 Pole Code	Panel Depth	4 Pole Code	Panel Depth	Plate Size
16A	20A	11kW	5.5kW	-	-	AN5621000	50.5mm	AN5631000	60.5mm	48x48mm
25A	32A	15kW	7.5kW	-	-	AN5622000	50.5mm	AN5632000	60.5mm	
32A	40A	18.5kW	11kW	AN5613100	48.3mm	AN5623100	60.3mm	AN5633100	72.3mm	60x60mm
40A	50A	22kW	18.5kW	-	-	AN5624100	60.3mm	AN5634100	72.3mm	
63A	70A	37kW	22kW	AN5616100	62.5mm	AN5626100	79mm	AN5636100	95.5mm	66x66mm
80A	100A	45kW	30kW	-	-	AN5628100	79mm	AN5638100	95.5mm	
100A	100A	55kW	30kW	-	-	AN5627100	79mm	AN5637100	95.5mm	
125A	125A	75kW	37kW	-	-	AN5629100	79mm	AN5639100	95.5mm	
160A	160A	90kW	52kW	-	-	AN562A100	128.5mm	AN563A100	161.5mm	
200A	200A	110kW	65kW	-	-	AN562B100	128.5mm	AN563B100	161.5mm	
250A	250A	132kW	-	-	-	AN562C100	128.5mm	AN563C100	161.5mm	

MOTOR & PROCESS CONTROL CAM SWITCHES

Motor Control Switches Door Mount



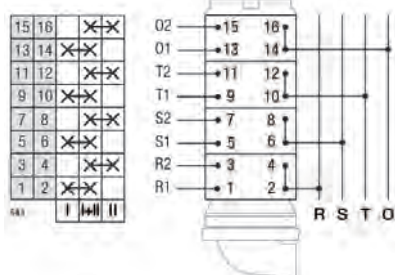
Rated Current	AC21 @ 400VAC	AC23 @ 400VAC	DC Reversing	Panel Depth	3 Phase Reversing	Panel Depth	Star Delta	Panel Depth	Dahlander	Panel Depth	Plate Size
12A	7.5kW	4kW	AN6700000	40.5mm	AN6710000	50.5mm	AN6400000	60.5mm	AN6810000	60.5mm	48x48mm
16A	11kW	5.5kW	-	-	AN6711000	50.5mm	AN6401000	60.5mm	AN6811000	60.5mm	48x48mm
25A	15kW	7.5kW	-	-	AN6712000	50.5mm	AN6402000	60.5mm	AN6812000	60.5mm	48x48mm
32A	18.5kW	10kW	-	-	AN6713100	60.3mm	AN6403100	72.3mm	AN6813100	72.3mm	64x64mm
40A	22kW	11kW	-	-	AN6714100	60.3mm	AN6404100	72.3mm	AN6814100	72.3mm	64x64mm

Stepping Switches - Door Mount

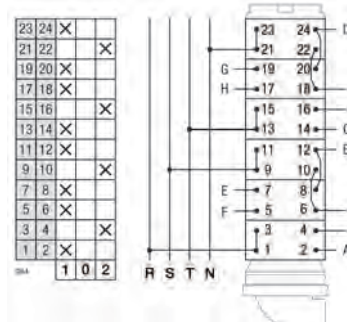


Type	Rated Current	AC23 @ 400VAC	Code	Plate Marking	Panel Depth	Plate Size
1 Pole 3 step + off	12A	4kW	AN6110000	0-1-2-3	40.5mm	48x48mm
1 Pole 5 step + off	12A	4kW	AN6130000	0-1-2-3-4-5	50.5mm	48x48mm
1 Pole 7 step + off	12A	4kW	AN6150000	0-1-2-3-4-5-6-7	60.5mm	48x48mm

Overlapping Change Over Switch



By-Pass Change Over Switch



Rated Current	AC21 @ 400VAC	AC23 @ 400VAC	4 Pole Code	Panel Depth	Rated Current	AC21 @ 400VAC	AC23 @ 400VAC	4 Pole Code	Panel Depth
12A	7.5kW	4kW	AN5430000	60.5mm	25A	15kW	7.5kW	AN9842000	80.5mm
16A	11kW	5.5kW	AN5431000	60.5mm	40A	22kW	18.5kW	AN9844100	96.3mm
25A	15kW	7.5kW	AN5432000	60.5mm	63A	37kW	22kW	AN9846100	128.5mm
32A	18.5kW	11kW	AN5433100	72.3mm	80A	45kW	30kW	AN9848100	128.5mm
40A	22kW	18.5kW	AN5434100	72.3mm	100A	55kW	30kW	AN9847100	128.5mm
63A	37kW	22Kw	AN5436100	95.5mm	125A	75kW	37Kw	AN9849100	128.5mm

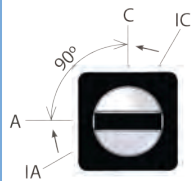
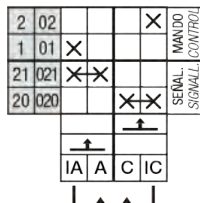
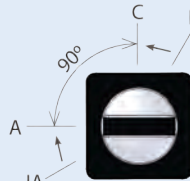
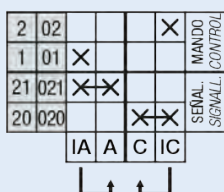
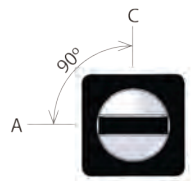
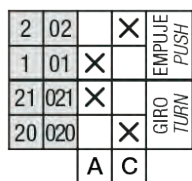
Mounting Accessories - for all Gawe Cam Switches



Code	Description	For Switch Amps
AK0000003	Base mounting plate	Up to 40A
AK0000006	Base mounting plate	63-250A
AK0100007	Din rail mounting plate	Up to 40A
AK1730003	Base mounting kit with extension shaft and door interlock	Up to 40A
AK1730006	Base mounting kit with extension shaft and door interlock	63-250A
AK1740003	Din rail mounting kit with extension shaft and door interlock	Up to 40A
AK1740006	Din rail mounting kit with extension shaft and door interlock	63-250A
AK2240003	IP65 gasket for door mount switches	Up to 40A
AK2240006	IP65 gasket for door mount switches	63-250A

DISCREPANCY & POSITION SWITCHES

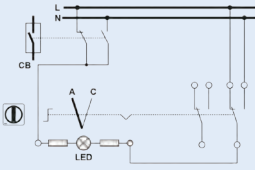
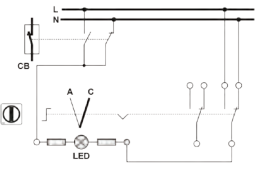
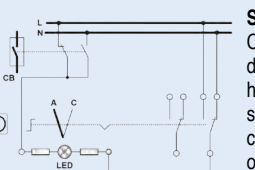
- Discrepancy switches are used to control and monitor the position of isolator switches and circuit breakers and signal any discrepancy on their operation.
- Control contacts rated 25Amp
- Signal elements consume 50mA from supply to switch
- Single colour signal: White
- Bi-colour signal (Green) 0-180°, (Red) 90-270°. Colours only indicate switch position. LED on/off will indicate correct operation or discrepancy.
- Each unit has one control contact and one signalling contact (Switches with different contact configurations available on request)

	Push & Turn with Spring Return		Turn		Turn & Push	
Note: Switches are supplied with only the operating handle. Bezels are to be ordered separately (see accessories below).						
Code	AES112000	AEB112210	AMS112000	AMB112210*	AEV112000	-
Type	Single colour	Bi-colour	Single colour	Bi-colour	Single colour	Bi-colour
Supply Voltage	24 - 240VAC 24 - 150VDC	*110VAC	24 - 240VAC 24 - 150VDC	*110VAC	24 - 240VAC 24 - 150VDC	*110VAC
Description	ES push-turn discrepancy control switches have two fixed positions for pre-selection contacts at 90° and two additional push-turn impulse positions with 30° spring return.  		MS Discrepancy control switches have two fixed positions for pre-selection contacts at 90° and two additional impulse positions with 30° spring return.  		EV switches have two fixed positions at 90° with turn contacts and discrepancy contacts, and two vertical push positions for maintained contacts.  	
* Bi-Colour type available in different voltages on request						

Accessories

				
Code	AP327906	AP326904	AP325906	AK1020050
Description	Grey faceplate with black insert	Black faceplate with chrome insert	Chrome faceplate	Spare handle

Operation

	Signal OK Circuit breaker and control/signal contacts are disconnected. Knob light is on.		Signal OK Circuit breaker and control/signal contacts are connected. Knob light is on.		Signal Discrepancy Circuit breaker is disconnected (protection has tripped): and control/signal contacts are connected. Knob light is off indicating discrepancy.
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VOLTMETER & AMMETER SWITCHES



A7431100



A7461100



A7671100

Code	Description	Size (mm)
A7431100	Voltmeter switch 3 phase 16A phase to phase measurement. O, RS, ST, TR	48 x 48 x 50.5
A7461100	Voltmeter switch 3 phase 16A phase to neutral measurement. RN, SN, TN, O, TR, ST, RS	48 x 48 x 60.5
A7671100	Ammeter switch 3 phase 16A. O, R, S, T	48 x 48 x 50.5

NEW

ILLUMINATED CAM SWITCHES

Padlockable Illuminated Isolators

Supply for LED: 230VAC*

● = 0

● = 1



Illuminated Changeover Switches

Red in Position 0, Green in Position 1 and 2.

Supply for LED: 230VAC*

● = 1

● = 0

● = 2



Changeover Switch

Illuminated Switches Isolators

Colour selected by Contact Input

Supply for LED: 230VAC*

● = 1

● = 0

● = 2



A-5527T0S

Padlockable Illuminated Isolators

Rated Current	ITH	AC21 @ 400VAC	AC23 @ 400VAC	2 Pole Code	Panel Depth	3 Pole Code	Panel Depth	4 Pole Code	Panel Depth	Plate Size
16A	20A	11kW	5.5kW	AB551112L	66mm	AB552112L	76mm	AB553112L	76mm	48x48mm
32A	40A	18.5kW	11kW	AB551312L	77mm	AB552312L	89mm	AB553312L	89mm	64x64mm
40A	50A	22kW	18.5kW	AB551412L	77mm	AB552412L	89mm	AB553412L	89mm	
63A	70A	37kW	22kW	AB551612L	87mm	AB552612L	103mm	AB553612L	103mm	
100A	100A	55kW	30kW	AB551712L	87mm	AB552712L	103mm	AB553712L	103mm	
125A	125A	75kW	37kW	AB551912L	87mm	AB552912L	103mm	AB553912L	103mm	

* Other Colours and Supply Voltages available on request

Illuminated Changeover Switches

Rated Current	ITH	AC21 @ 400VAC	AC23 @ 400VAC	2 Pole Code	Panel Depth	3 Pole Code	Panel Depth	4 Pole Code	Panel Depth	Plate Size
16A	20A	11kW	5.5kW	A-561112L	76mm	A-562312L	86mm	A-563312L	96mm	48x48mm
32A	40A	18.5kW	11kW	A-561312L	89mm	A-562312L	101mm	A-563312L	113mm	64x64mm
40A	50A	22kW	18.5kW	A-561412L	89mm	A-562412L	101mm	A-563412L	113mm	
63A	70A	37kW	22kW	A-561612L	103mm	A-562612L	120mm	A-563612L	136mm	
100A	100A	55kW	30kW	A-561712L	103mm	A-562712L	120mm	A-563712L	136mm	
125A	125A	75kW	37kW	A-561912L	103mm	A-562912L	120mm	A-563912L	136mm	

* Other Colours and Supply Voltages available on request

Illuminated Switches Isolators - Colour selected by Contact Input

Rated Current	ITH	AC21 @ 400VAC	AC23 @ 400VAC	2 Pole Code	Panel Depth	3 Pole Code	Panel Depth	4 Pole Code	Panel Depth	Plate Size
16A	20A	11kW	5.5kW	A-5511T0S	74mm	A-5521T0S	84mm	A-5531T0S	84mm	48x48mm
32A	40A	18.5kW	11kW	-	-	A-5523T0S	89mm	A-5533T0S	89mm	64x64mm
40A	50A	22kW	18.5kW	-	-	A-5524T0S	89mm	A-5534T0S	89mm	
63A	70A	37kW	22kW	-	-	A-5526T0S	103mm	A-5536T0S	103mm	
100A	100A	55kW	30kW	-	-	A-5527T0S	103mm	A-5537T0S	103mm	
125A	125A	75kW	37kW	-	-	A-5529T0S	103mm	A-5539T0S	103mm	

* Other Colours and Supply Voltages available on request

Add on Lighting Modules for Gawe CAM Switches



LED Module with Standard Handle

Padlockable Handle (without LED Module)

Type	LED Voltage	12-16A Code	32-40A Code	63-125A Code
External Signal Control LED Module c/w Standard Handle ● ● ●	230V	AK2503120D	AK2503121D	AK2503126D
	400V	AK2543120D	AK2543121D	AK2543126D
	24V	AK2523120D	AK2523121D	AK2523126D
Optional Padlockable Handle only		AK1230503	AK1230506	AK1230506

For compatible switches see page 7.49, 7.51