







Heavy Duty Switchboards

CBI type HPR & HPS Heavy Duty Switchboards & HCF, HPR & Xtreme Heavy Duty Load centres are designed to meet the needs of Australia's harsh mining and industrial requirements. The clean and structured appearance in combination of a robust steel cabinet construction and positive door sealing guarantees electrical equipment is fully protected from the elements. Built to last our Heavy Duty Switchboards meet ever increasing safety requirements demanded by our Mining and Industrial related customers.

Standard Features

- Integral padlocking provision on main switch, circuit breakers and residual current devices
- · Baked polyester powder coated finish (X15 Orange to AS2700) as standard. Alternate colours available on request
- · All external and internal labels secured with stainless steel screws

- Phase coloured LPA studs fitted to the escutcheon
- IP2X protection on all line and load terminals
- . Dummy circuit breakers as pole fillers





HPR & HPS HEAVY DUTY SWITCHBOARDS

Enclosure dimensions of 225mm D x 580mm W (HPR) and 325mm D x 700mm W or 900mm W (HPS) offer increased gland plate area for the termination of cables and increased internal area for cable routing. A double return enclosure sealing flange provides positive deflection from the ingress of foreign material and liquids entering the enclosure; while a high quality door sealing gasket with high UV withstand provides sealing and stability over a wide temperature range. The HPR and HPS switchboards offer IP54 (with vented rain hood), IP56 and IP66 degree of protection.

MINING DUTY LOAD CENTRES

Our HCF, HPR & Xtreme Mining Duty Load Centres are designed & constructed for optimum performance. The range offers a greater box depth than most standard load centres, & provides IP40 degree of protection for the HCF range, & IP66 degree of protection for the HPR & Xtreme range therefore offering ultimate protection for your switchgear.

The Xtreme range offers a fully customisable and modular solution making it one of the most durable & cost effective weatherproof solutions for any outdoor application on the market.

RAIN HOODS

These are optional on the HPR and HPS and provide positive enclosure protection from rain and moisture. An IP54 rating is achieved when using a vented rain hood while an IP66 rating is maintained with a non-vented rain hood. All vented rain hoods contain a non-hydroscopic membrane filter mesh material which allows the enclosure to 'breathe' (an IP54 enclosure) as well as preventing condensation forming and falling onto equipment. The additional lip designed over the door flange prevents the build-up of dirt and dust falling when the door is opened.

SWITCHGEAR

CBI-electric: Australia offer a unique & extensive portfolio of switchgear that ensures reliability & efficient use within a wide range of applications. Our SF range of circuit breakers employs the Hydraulic-Magnetic principle of operation. This technology boasts two distinct properties; one being the accurate tripping characteristics, the other is its independent ambient temperature variations. Our core product range includes circuit breakers for equipment, miniature circuit breakers, moulded case circuit breakers, RCBOs and auxiliary products for the protection of installations and equipment against overload and short circuit.



PADLOCK ATTACHMENTS

All CBI switch disconnector, MCBs and RCBOs used have an integral padlock attachment fitted. These attachments provide positive lock-out for isolation procedures and accept padlocking scissors and padlocks with up to 8mm hasps.

Features

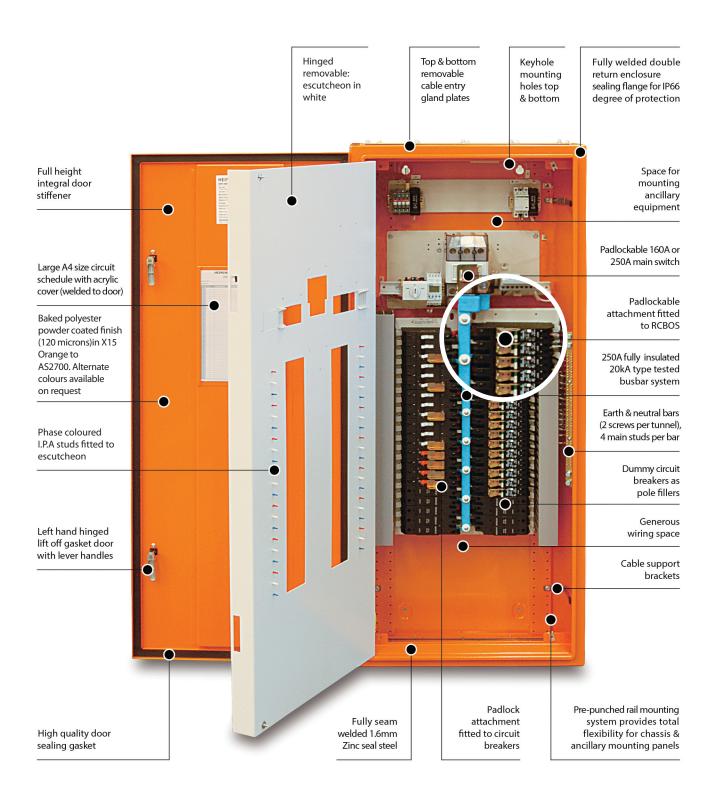
- Robust Metal Padlocking attachment
- Embedded nutsert in switchgear, offering greater security
- Durable enough to hold six (6) padlocks





Features at a Glance

The generous space within the HPR heavy duty switchboard, coupled with ergonomic design & removable sections allow for easy access for equipment fitting & wiring



Company Overview

CBI Electric is a major manufacturer and supplier of quality low voltage protection equipment, power and distribution boards, motor control centres and a range of electrical installation type products. With a national distribution presence we are able to provide a quality service for all our client needs.

CBI Electric provides trusted, durable and reliable products for the protection, control and fitting of most Low Voltage electrical installations. We design, manufacture and supply Electrical Main Switchboards up to 3200 Amp, Distribution Boards, load centres, Temporary Site Switchboards, Switchgear that utilizes Hydraulic Magnetic technology, switchboard hardware, Auxiliary products and a wide range of electrical Installation products. We work to keep up with relevant technologies, improve our capabilities, customise our products in line with customer needs, and build long term relationships with our customers. Our overall aim is to make our customer's path to success easier.

Our Mission

CBI Electric will strive to become the leader in the electrical industry in design, manufacture and supply of electrical switchboards, circuit protection devices and electrical installation products.

Our Vision

- Provide the best customer service
- Exceed customer's expectations
- Continually improve product quality
- Protect our environment
- Provide a safe and efficient product

Our Core Capabilities

- Complete and mutual understanding of, our clients objectives and goals
- Electrical design and testing
- Designing of main switchboards, distribution boards, and other related equipment
- Our design services utilize the latest design engineering software
- Personalised project management from start to finish
- Experienced quotation department allowing for fast turnaround on most quotations
- Extensive testing and quality reviews
- Experienced and accredited manufacturing partners ensuring fast turnaround for customised variations
- Deliver the highest standards possible inline with our long standing accreditation to AS/NZS ISO 9001:2000

Our Customers



































HPR Mining Duty RangeHeavy Duty Distribution Board

Features

- Optional vented and non-vented rain hoods
- High quality door sealing gasket with double return enclosure sealing flange
- Left hand hinged lift-off gasketed door with lever handles (1 handle is padlockable)
- Left hand hinged removable escutcheon painted in white with tool operated captive screws
- Integral padlocking provision on main switch, circuit breakers & RCBOs
- Phase coloured I.P.A studs fitted to the escutcheon
- Top and bottom, brass or aluminium gasketed screw on gland plates
- Optional Rainhoods available

- All external and internal lables, secured with stainless steel fasteners
- · Galvanised chassis pan and gear trays
- Dummy cicuit breakers used as pole fillers
- International danger label on door
- Metal A4 legend card holder, welded to inside of door (includes acrylic cover and legend card)
- Cable support brackets at 200mm centres
- Optional wall mounting brackets (field fittable or factory welded)
- · Optional Aluminium & Stainless Steel enclosure construction availabe



Technical Data

- Complies with AS/NZS 3439.3
- IP66 Degree of protection
- 250A, 20kA 0.2s type tested busbar system (Type HVC)
- 225mm enclosure depth including door
- 140mm depth below escutcheon
- · 65mm useable space between escutcheon and door
- Premier fully welded 1.6mm, Zincseal steel construction
- Neutral and earth bars (2 screws per tunnel) at the side,
 4 main studs per bar
- IP2x on all line and load terminals
- Baked polyester powder coated finish (120 microns) in X15 Orange to AS 2700

Selection Data

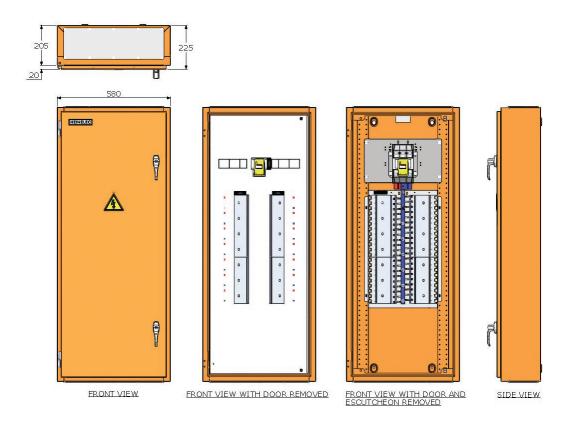
HPR MINING DUTY DISTRIBUTION SWITCHBOARDS							
NO OF POLES	RAIL TYPE	DIMENSIONS (mm)			CAT. NO.		
NU UF FULES	KAIL ITPE	HEIGHT	WIDTH	DEPTH	160 Amp Main Switch	250 Amp Main Switch	
18	SFM	1000	580	225	HPR18M160MD	HPR18M250MD	
24	SFM	1200	580	225	HPR24M160MD	HPR24M250MD	
30	SFM	1200	580	225	HPR30M160MD	HPR30M250MD	
36	SFM	1400	580	225	HPR36M160MD	HPR36M250MD	
42	SFM	1400	580	225	HPR42M160MD	HPR42M250MD	
48	SFM	1600	580	225	HPR48M160MD	HPR48M250MD	



Accessories & Options

HPR MINING-DUTY ACCESSORIES					
CAT. NO.	DESCRIPTION	DIMENSIONS (MM)			
703100G01	Lockable Lever Handle CL001 for HPR	-			
703100G02	Lockable Lever Handle 604 for HPR	-			
703100G03	Lockable Lever Handle 92268 for HPR	-			
703100G04	Padlockable Handle for HPR	-			
703100G05	Non-Lockable Lever Hand for HPR	-			
703102G01	Screwdriver (Flush) Catch Kit for HPR	-			
HPR-RH225MD	Weatherproof Rain Hood Flat: Vented (IP54)	580W			
HPR-RHNV225MD	Weatherproof Rain Hood Flat: Non Vented (IP66)	580W			
HPR-RHNVS0225MD	Rainhood Sloping, Single Overhang, Non Vented	-			
HPR-RHNVD0225MD	Rainhood Sloping, Double Overhang, Non Vented	-			
HPR-RHNV3225MD	Weatherproof Rain Hood 30°: Non Vented (IP66)	580W			
HPR-MB10MD	External mounting Brackets HPR	580W			
HPR-PL2G	75mm High Hot Dip Galv. Plinth Kit	580W			
HPR-BG3	Gland Plate Brass 3mm	580W			
HPR-AG3	Gland Plate Aluminium 3mm	580W			
HPR-AG6	Gland Plate Aluminium 6mm	580W			
703600G01	Mounting Hole Bung	-			

Note: Rainhoods - Overhang front, sides, front & back, sloping etc. Can be ordered specifically, in IP56 & IP66 versions. Also optional in Stainless Steel & Aluminium





HPS Mining Duty Range

Premier Distribution Board

Features

- Optional vented and non-vented rain hoods
- High quality door sealing gasket with double return enclosure sealing flange
- Left hand hinged lift-off gasketed door with lever handles (1 handle is padlockable)
- Left hand hinged removable escutcheon painted in white with tool operated captive screws
- Integral padlocking provision on main switch, circuit breakers & RCBOs
- Phase coloured I.P.A studs fitted to the escutcheon
- Top and bottom steel, brass or aluminium gasketed, screw on gland plates
- Optional rainhoods available

- · All external and internal lables
- · Secured with stainless steel screws
- · Galvanised chassis pan and gear trays
- · Dummy cicuit breakers used as pole fillers
- International danger label on door
- Metal A4 legend card holder, welded to inside of door (includes acrylic cover and legend card)
- Cable support brackets at 200mm centres
- Optional wall mounting brackets (field fittable or factory welded)
- Available in 316 stainless steel as an option
- Optional Aluminium & Stainless Steel enclosure construction available



Technical Data

- IP66 Degree of protection
- 250A, 20kA 0.2s type tested busbar system (Type HVC)
- 315A, 20kA 0.4s type tested busbar system (Type HVC)
- 400A, 20kA 1.0s type tested busbar system (Type HVC)
- Complies with AS/NZS 3439.3
- 325mm standard enclosure depth including door, customised enclosure depth can be made to order
- 225 depth below escutcheon

- 95mm useable space between escutcheon and door
- Premier fully welded 2.0mm, Zincseal steel construction
- Neutral and earth bars (2 screws per tunnel) at the side, 4 main studs per bar
- IP2x on all line and load terminals
- Baked polyester powder coated finish (120 microns) in X15 Orange to AS 2700

Selection Data

HPS MINING DUTY DISTRIBUTIONS SWITCHBOARDS							
NO OF POLES RAIL TYPE		DIMENSIONS (mm)			CAT. NO.		
NU UF PULES	RAIL TYPE	HEIGHT	WIDTH	DEPTH	160 Amp Main Switch	250 Amp Main Switch	
48	SFM Cliptray	1400	700	325	HPS48M160MD7	HPS48M250MD7	
60	SFM Cliptray	1600	700	325	HPS60M160MD7	HPS60M250MD7	
72	SFM Cliptray	1800	700	325	HPS72M160MD7	HPS72M250MD7	
84	SFM Cliptray	2000	700	325	HPS84M160MD7	HPS36M250MD7	
48	SFM Cliptray	1400	900	325	HPS48M160MD9	HPS42M250MD9	
60	SFM Cliptray	1600	900	325	HPS60M160MD9	HPS60M250MD9	
72	SFM Cliptray	1800	900	325	HPS72M160MD9	HPS72M250MD9	
84	SFM Cliptray	2000	900	325	HPS84M160MD9	HPS84M250MD9	

Note: Customised enclosure depth as requested

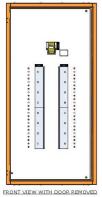


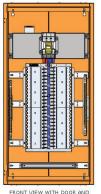
Accessories & Options

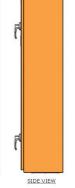
	HPS MINING ACCESSORIES	
CAT. NO.	DESCRIPTION	DIMENSIONS (MM)
HPS-RH73MD	Weatherproof Rain Hood Flat: Vented (IP54)	700W
HPS-RH93MD	Weatherproof Rain Hood Flat: Vented (IP54)	900W
HPS-RHNV73MD	Weatherproof Rain Hood Flat: Non Vented (IP66)	700W
HPS-RHNV93MD	Weatherproof Rain Hood Flat: Non Vented (IP66)	900W
HPS-RHNV373MD	Weatherproof Rain Hood 30°: Non Vented (IP66)	700W
HPS-RHNV393MD	Weatherproof Rain Hood 30°: Non Vented (IP66)	900W
HPS-RHNV73SOMD	Rainhood Sloping, Single Overhang, Non Vented	700W
HPS-RHNV73DOMD	Rainhood Sloping, Double Overhang, Non Vented	700W
HPS-RHNV93SOMD	Rainhood Sloping, Single Overhang, Non Vented	900W
HPS-RHNV93DOMD	Rainhood Sloping, Double Overhang, Non Vented	900W
HPS-MB7MD	External mounting Brackets HPS	700W
HPS-MB9MD	External mounting Brackets HPS	900W
HPS-PL73G	Switchboard Plinth Kit HPS	700W
HPS-PL93G	Switchboard Plinth Kit HPS	900W
HPS-PL143G	75mm High Hot Dip Galv. Plinth Kitch	1400W
HPS-PL163G	75mm High Hot Dip Galv. Plinth Kitch	1600W
HPS-PL183G	75mm High Hot Dip Galv. Plinth Kitch	1800W
HPS-SG	Gland Plate Painted 2mm	700W
HPS-SG	Gland Plate Painted 2mm	900W
HPS-BG	Gland Plate Brass 3mm	700W
HPS-BG	Gland Plate Brass 5mm	700W
HPS-BG	Gland Plate Brass 3mm	900W
HPS-BG	Gland Plate Brass 5mm	900W
HPS-AG	Gland Plate Aluminium 3mm	700W
HPS-AG	Gland Plate Aluminium 5mm	700W
HPS-AG	Gland Plate Aluminium 3mm	900W
HPS-AG	Gland Plate Aluminium 5mm	900W
HPS-BGT	Gland Plate Internal Brass 3mm	700W
HPS-BGT	Gland Plate Internal Brass 5mm	900W
HPS-AGT	Gland Plate Internal Aluminium 3mm	700W
HPS-AGT	Gland Plate Internal Aluminium 5mm	900W
703600G01	Mounting Hole Bung	-

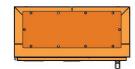
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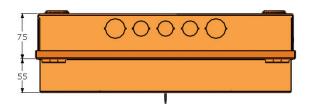
HCF Mining Duty Load Centre Range

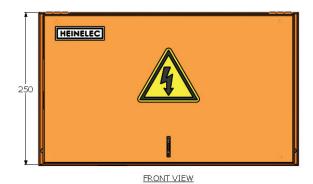
Features

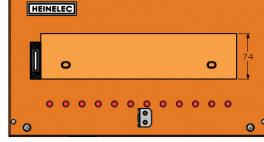
- IP40 degree of protection
- 100A Single phase or three phase link busbar
- Complies with AS/NZS 3439.3 (Form 1)
- Padlockable door
- 130mm enclosure depth including door
- · Single phase red coloured I.P.A studs fitted
- Robust 1.2mm steel construction
- Integral padlocking provision on main switch, circuit breakers & RCBO's
- Baked polyster powder coated finish in X15 orange
- IP2X on all line & load terminals
- Dummy circuit breakers used as pole fillers
- Metal A5 legend card holder, welded to inside of door

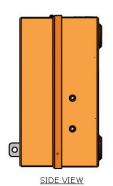


HCF (SFM) MINING DUTY LOAD CENTRES							
CAT NO	DESCRIPTION	NO OF POLES	RAIL TYPE	DIMENSIONS (mm)			
	DESCRIPTION		NAIL TIPE	HEIGHT	WIDTH	DEPTH	
HCF6DMD	Mining Duty Load Centre	6	SFM Cliptray	250	260	130	
HCF12DMD	Mining Duty Load Centre	12	SFM Cliptray	250	420	130	
HCF18DMD	Mining Duty Load Centre	18	SFM Cliptray	250	580	130	









FRONT VIEW WITH DOOR REMOVED



HPR Mining Duty Load Centre Range

Features

- IP66 degree of protection
- IP54 degree of protection if fitted with vented rain hood
- Premier fully welded 1.6mm Zincseal Steel Construction
- Double return enclosure sealing flange
- · Baked polyester powder coated finish X15 orange
- Hinged removable escutcheon with identification marking label, or optional I.P.A studs available
- Left hand hinged lift off gasketed door with lockable lever handle
- High quality door sealing gasket with retaining angle
- Optional weatherproof rainhood
- External mounting brackets supplied as standard on weatherproof load centre
- 225mm enclosure depth including door
- Optional stainless steel & aluminium construction available

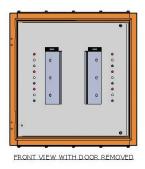


HPR (SFM) LOAD CENTRES								
CAT NO	DESCRIPTION	COLOUR	NO OF POLES	RAIL TYPE	DIMENSIONS (mm)			
	DESCRIF HON	COLOUR	NO OF FULLS	NAIL TIFE	HEIGHT	WIDTH		
HPR15LCMD	Mining Duty Load Centre HPR	X15 Orange	15	SFM Cliptray	600	580		
HPR18LCMD	Mining Duty Load Centre HPR	X15 Orange	18	SFM Cliptray	600	580		
HPR24LCMD	Mining Duty Load Centre HPR	X15 Orange	24	SFM Cliptray	600	580		

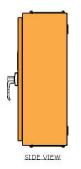
	HPR (SFM) LOAD CENTRE ACCESSORIES					
CAT NO	CAT NO DESCRIPTION					
HPR-RH225MD	Weatherproof Rain Hood Flat: Vented	580				
HPR-RHNV225MD	Weatherproof Rain Hood Flat: Non Vented	580				
HPR-RHNV3225MD	Weatherproof Rain Hood Flat 30°: Non Vented	580				
HPR-MB10MD	External Mounting Brackets HPR	580				
HPR-BG3	Gland Plate Brass 3mm	580				
HPR-AG3	Gland Plate Aluminium 3mm	580				
HPR-AG5	Gland Plate Aluminium 5mm	580				

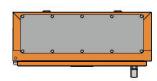
HPR Mining Duty Load Centre













Xtreme IP66 Load Centre Range

Features

- IP66 protection rating
- DIN or SFM Cliptray versions
- · Easy to fit modular design
- Innovative & easily fitted weatherproof Rain Hood option. Also 40° sloping version available
- · Pad lockable swing handle
- Top & Bottom Gland plates, fitted with high quality gaskets
- Light weight, heavy duty fully welded Zinc Anneal construction
- Quality 100Amp busbar system

- · Heavy Duty fixed mounting tags
- 1 Phase coloured I.P.A studs fitted to escutcheon as standard, other phases available as option
- High Quality door sealing gasket with double return enclosure sealing flange
- Baked polyester UV resistant X15 Orange, powder coated finish
- Stainless Steel Hinges & Fasteners
- Robust 1.2mm Zinc anneal construction (gland plates 2.0mm)

- Internal 6mm earth stud
- Innovative internal cable support brackets
- Integrated document holder
- Vandal resistant Kit optional
- Brass & Aluminium Gland Plate options available
- Stainless Steel enclosure available on request







Application

- Mining
- Oil & Gas
- Food & Beverage processing
- Heavy Industrial
- Rail
- Transportable Buildings

XTREME ENCLOS	URE DETAILS	
ENCLOSURE DETAILS	HLC6612X	HLC6624X
IP Rating	66	66
Material (Body)	1.2mm	1.2mm
Material (Gland Plates)	2.0mm	2.0mm
Rail Type	SFM	SFM
Poles Capacity: SFM / DIN MCB's	12	24
Colours to AS2700	X15 Orange	X15 Orange
Handle Type	Padlockable Swing Handle	Padlockable Swing Handle
Handle Material	Chrome Plated	Chrome Plated
Removeable Gland Plates Top & Bottom	✓	✓
Door Hinge independent of escutcheon	✓	✓
Door Hinge Material	Stainless Steel	Stainless Steel
Busbar Rating	100 Amp	100 Amp
Busbar Type	SFM MCB's	SFM MCB's
Neutral Bar 2 x M8 Connections	✓	✓
Earth Bar 2 x M8 Connections	√	✓

XTREME (SFM) RANGE							
CAT NO TYPE NO OF POLES HEIGHT (mm) WIDTH (m				WIDTH (mm)	DEPTH (mm)	COLOUR	
HLC6612X	SFM	12	320	500	170	Orange	
HLC6624X	SFM	24	640	500	170	Orange	

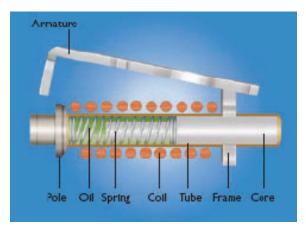
XTREME RAIN HOOD								
CAT NO	SUITS MODEL	HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)	COLOUR			
HLCRHX	HLC6612X, HLC6624X	62	504	198	Orange			
HLCRHX40 (40° Slope)	HLC6612X, HLC6624X	151	504	198	Orange			

XTREME ENCLOSURE OPTIONAL ACCESSORIES						
ACCESSORIES	HLC6612X	HLC6624X				
Brass 3mm Gland Plate	✓	\checkmark				
Aluminium 3mm Gland Plate	✓	✓				
Aluminium 6mm Gland Plate	✓	✓				
Stainless Steel Padlockable Swing Handle	✓	√				
Tamper Proof Gland Plate Screw Kit	✓	✓				
Stainless Steel 316 Grade Enclosure	✓	✓				
SFM 3 Phase conversion Kit	✓	✓				
DIN 3 Phase conversion Kit	✓	✓				



HYDRAULIC MAGNETIC PRINCIPLES OF OPERATION

4



It operates on the magnetic force produced by the load current flowing through a solenoid coil. The coil is wound around a hermetically sealed tube containing an iron core, a spring and dampening fluid. At currents below the circuit breaker rating the magnetic flux in the solenoid is insufficient to attract the core to the pole piece due to the opposing spring pressure. When an overload occurs, the magnetic flux in the solenoid produces sufficient magnetic attraction to overcome the spring force and the core moves towards the pole.



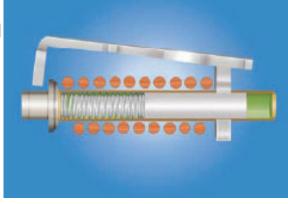


The fluid, creating a time delay inversely proportional to the current dampens the speed of movement. If the overload is of short duration - such as during start up of motors - the core returns to its rest position when the overload disappears.





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If an overload persists, the core reaches the pole piece with a delay particular to that current. In so doing the reluctance of the magnetic circuit drops so that the armature is attracted to the pole face with sufficient force to collapse the latch mechanism and trip the breaker. The contacts separate, the current stops flowing and the core returns to the reset position.

At high overload values or short circuit, the magnetic flux produced by the coil is sufficient to attract the armature to the pole face and trip the breaker even though the core has not moved. This is referred to as the 'instantaneous trip' characteristic of the circuit breaker.

The circuit breaker may be immediately reclosed after tripping, provided the fault has been cleared, as there is no cooling down time required. Its principle of operation allows for avariety of time/current characteristics to be tailored to individual requirements.



SF RCBO'S

FEATURES

- AS/NZS 3190 Type II approved (Approval Nº: NSW 21007)
- Switches both Active & Neutral conductors
- Overload & short circuit protection
- Shock & Fire Hazard protection
- Suitable for pulsating DC current
- Single phase over-current protection
- IP2X terminals
- 26mm module width
- High Immunity to transient currents (Peak withstand current 250A, 8/20 μs)
- Special high sensitivity 10mA SF1EL RCBO'S are available for hospital applications & medical equipment which complies to AS/NZS 3003
- Hydraulic Magnetic Technology
- Trip point unaffected by ambient temperature
- Presision circuit breaker, always holds 100% of rated current
- Immediate resetting after tripping (provided the fault condition has been cleared)
- Mid trip handle position, indicating that the RCBO has tripped
- · Optional intergral padlock attachment accepting up to 8mm hasp
- Insulation resistance testing can be done with the handle in the OFF position (No disconnection of the unit is required)



APPLICATION

- . Mining & Minerals
- Oil & Gas
- Heavy Industrial
- Multi Storey Complexes
- Hotels & Clubs

- Hospital & Medical Centres
- · Schools & Universities
- Electrical office equipment
- Rail & Infrastructure

SELECTION DATA

				SF RCBO			
PART NO	RAIL TYPE	AMP RATING (A)	NO OF POLES	SENSITIITY (m A)	RATED VOLTAGE	RATED BREAKING CAPACITY (k A)	TRIPPING CURVE
SF1EL6-3	Cliptray	6	1+N	30 m A	240V	6 k A	Curve 2
SF1EL10-3	Cliptray	10	1+N	30 m A	240V	6 k A	Curve 2
SF1EL16-3	Cliptray	16	1+N	30 m A	240V	6 k A	Curve 2
SF1EL20-3	Cliptray	20	1+N	30 m A	240V	6 k A	Curve 2
SF1EL25-3	Cliptray	25	1+N	30 m A	240V	6 k A	Curve 2
SF1EL32-3	Cliptray	32	1+N	30 m A	240V	6 k A	Curve 2
SF1EL40-3	Cliptray	40	1+N	30 m A	240V	6 k A	Curve 2
SF36AE10	Cliptray	10	3+N	30 m A	240V	6 k A	Curve 2
SF36AE16	Cliptray	16	3+N	30 m A	240V	6 k A	Curve 2
SF36AE20	Cliptray	20	3+N	30 m A	240V	6 k A	Curve 2
SF36AE25	Cliptray	25	3+N	30 m A	240V	6 k A	Curve 2
SF36AE32	Cliptray	32	3+N	30 m A	240V	6 k A	Curve 2
SF36AE40	Cliptray	40	3+N	30 m A	240V	6 k A	Curve 2
SF36AE50	Cliptray	50	3+N	30 m A	240V	6 k A	Curve 2
SF36AE63	Cliptray	63	3+N	30 m A	240V	6 k A	Curve 2
SF36AE80	Cliptray	80	3+N	30 m A	240V	6 k A	Curve 2

ACCESSORIES & OPTIONS

SF1EL	10mA Setting, Integral padlocking facility
SF36/SM36	100mA, 250mA & 500mA Settings, Integral padlocking facility, Shunt Trip



SFM Miniature Circuit Breakers and **Switch Disconnectors**

Features

- AS3111 approved (Approved No. N15215)
- Available in single, double, triple & four pole units
- Precision circuit breaker utilizing hydraulic magnetic technology, results in accurate temperature independent tripping
- IP2X "finger proof" line & loud box (tunnel) type terminals
- Clear positie identification for ON/OFF (I/O) provided
- · Shunt trip provides for remote tripping
- Auxilary switch provides for remote indication

Application

- Mining
- Oli & Gas
- · Heavy industrial
- Multi Storey Complexes
- Hotels & Clubs
- Hospital & Medical Centres
- Schools & Universities
- Electrical office equipment
- Rail & Infrastructure



SFM MINIATURE CIRCUIT BREAKERS (MCB)						
PART NO	MOUNTING TYPE	AMP RATING (A)	NO OF POLES	RATED VOLTAGE	RATED BREAKING CAPACITY (k A)	TRIPPING CURVE
SFM1-G3-2-2	Cliptray	2	1	240V	6 k A	Curve 2
SFM1-G3-4-2	Cliptray	4	1	240V	6 k A	Curve 2
SFM1-G3-6-2	Cliptray	6	1	240V	6 k A	Curve 2
SFM1-G3-10-2	Cliptray	10	1	240V	6 k A	Curve 2
SFM1-G3-16-2	Cliptray	16	1	240V	6 k A	Curve 2
SFM1-G3-20-2	Cliptray	20	1	240V	6 k A	Curve 2
SFM1-G3-25-2	Cliptray	25	1	240V	6 k A	Curve 2
SFM1-G3-32-2	Cliptray	32	1	240V	6 k A	Curve 2
SFM1-G3-40-2	Cliptray	40	1	240V	6 k A	Curve 2
SFM1-G3-50-2	Cliptray	50	1	240V	6 k A	Curve 2
SFM1-G3-63-2	Cliptray	63	1	240V	6 k A	Curve 2
SFM1-G3-80-2	Cliptray	80	1	240V	6 k A	Curve 2
SFM1-G3-100-2	Cliptray	100	1	240V	6 k A	Curve 2
SFM2-G3-2-2	Cliptray	2	2	240V	6 k A	Curve 2
SFM2-G3-4-2	Cliptray	4	2	240V	6 k A	Curve 2
SFM2-G3-6-2	Cliptray	6	2	240V	6 k A	Curve 2
SFM2-G3-10-2	Cliptray	10	2	240V	6 k A	Curve 2
SFM2-G3-16-2	Cliptray	16	2	240V	6 k A	Curve 2
SFM2-G3-20-2	Cliptray	20	2	240V	6 k A	Curve 2
SFM2-G3-25-2	Cliptray	25	2	240V	6 k A	Curve 2
SFM2-G3-32-2	Cliptray	32	2	240V	6 k A	Curve 2
SFM2-G3-40-2	Cliptray	40	2	240V	6 k A	Curve 2
SFM2-G3-50-2	Cliptray	50	2	240V	6 k A	Curve 2
SFM2-G3-63-2	Cliptray	63	2	240V	6 k A	Curve 2
SFM2-G3-80-2	Cliptray	80	2	240V	6 k A	Curve 2
SFM2-G3-100-2	Cliptray	100	2	240V	6 k A	Curve 2
SFM3-G3-2-2	Cliptray	2	3	240V	6 k A	Curve 2



SFM MINIATURE CIRCUIT BREAKERS (MCB)						
PART NO	MOUNTING TYPE	AMP RATING (A)	NO OF POLES	RATED VOLTAGE	RATED BREAKING CAPACITY (k A)	TRIPPING CURVE
SFM3-G3-4-2	Cliptray	4	3	240V	6 k A	Curve 2
SFM3-G3-6-2	Cliptray	6	3	240V	6 k A	Curve 2
SFM3-G3-10-2	Cliptray	10	3	240V	6 k A	Curve 2
SFM3-G3-16-2	Cliptray	16	3	240V	6 k A	Curve 2
SFM3-G3-20-2	Cliptray	20	3	240V	6 k A	Curve 2
SFM3-G3-25-2	Cliptray	25	3	240V	6 k A	Curve 2
SFM3-G3-32-2	Cliptray	32	3	240V	6 k A	Curve 2
SFM3-G3-40-2	Cliptray	40	3	240V	6 k A	Curve 2
SFM3-G3-50-2	Cliptray	50	3	240V	6 k A	Curve 2
SFM3-G3-63-2	Cliptray	63	3	240V	6 k A	Curve 2
SFM3-G3-80-2	Cliptray	80	3	240V	6 k A	Curve 2
SFM3-G3-100-2	Cliptray	100	3	240V	6 k A	Curve 2
SFM4-3G3G0-10-2	Cliptray	10	3 + N	415V	6 k A	Curve 2
SFM4-3G3G0-16-2	Cliptray	16	3 + N	415V	6 k A	Curve 2
SFM4-3G3G0-20-2	Cliptray	20	3 + N	415V	6 k A	Curve 2
SFM4-3G3G0-25-2	Cliptray	25	3 + N	415V	6 k A	Curve 2
SFM4-3G3G0-32-2	Cliptray	32	3 + N	415V	6 k A	Curve 2
SFM4-3G3G0-40-2	Cliptray	40	3 + N	415V	6 k A	Curve 2
SFM4-3G3G0-50-2	Cliptray	50	3 + N	415V	6 k A	Curve 2
SFM4-3G3G0-63-2	Cliptray	63	3 + N	415V	6 k A	Curve 2
SFM4-3G3G0-80-2	Cliptray	80	3 + N	415V	6 k A	Curve 2
SFM4-3G3G0-100-2	Cliptray	100	3 + N	415V	6 k A	Curve 2

SFM MINIATURE CIRCUIT BREAKERS (MCB) ACCESSORIES				
CATEGORY NO	DESCRIPTION			
SFMHL	Handle lock off, multi pole SFM			
SFPF2	Pole Filler 74mm Cut Out SFM			
SFPF3	Pole Filler (Dummy MCB) SFM			
SFPF4	Pole Filler (Dummy MCB) SFM (Used for link busbar support)			

SFM SWITCH DISCONNECTORS						
CATEGORY NO	MOUNTING TYPE	AMP RATING (A)	NO OF POLES	RATED VOLTAGE		
SFM1-G0-63	Cliptray	63	1	240V		
SFM1-G0-80	Cliptray	80	1	240V		
SFM1-G0-100	Cliptray	100	1	240V		
SFM2-G0-63	Cliptray	63	2	415V		
SFM2-G0-80	Cliptray	80	2	415V		
SFM2-G0-100	Cliptray	100	2	415V		
SFM3-G0-63	Cliptray	63	3	415V		
SFM3-G0-80	Cliptray	80	3	415V		
SFM3-G0-100	Cliptray	100	3	415V		
SFM4-G0-63	Cliptray	63	4	415V		
SFM4-G0-80	Cliptray	80	4	415V		
SFM4-G0-100	Cliptray	100	4	415V		

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