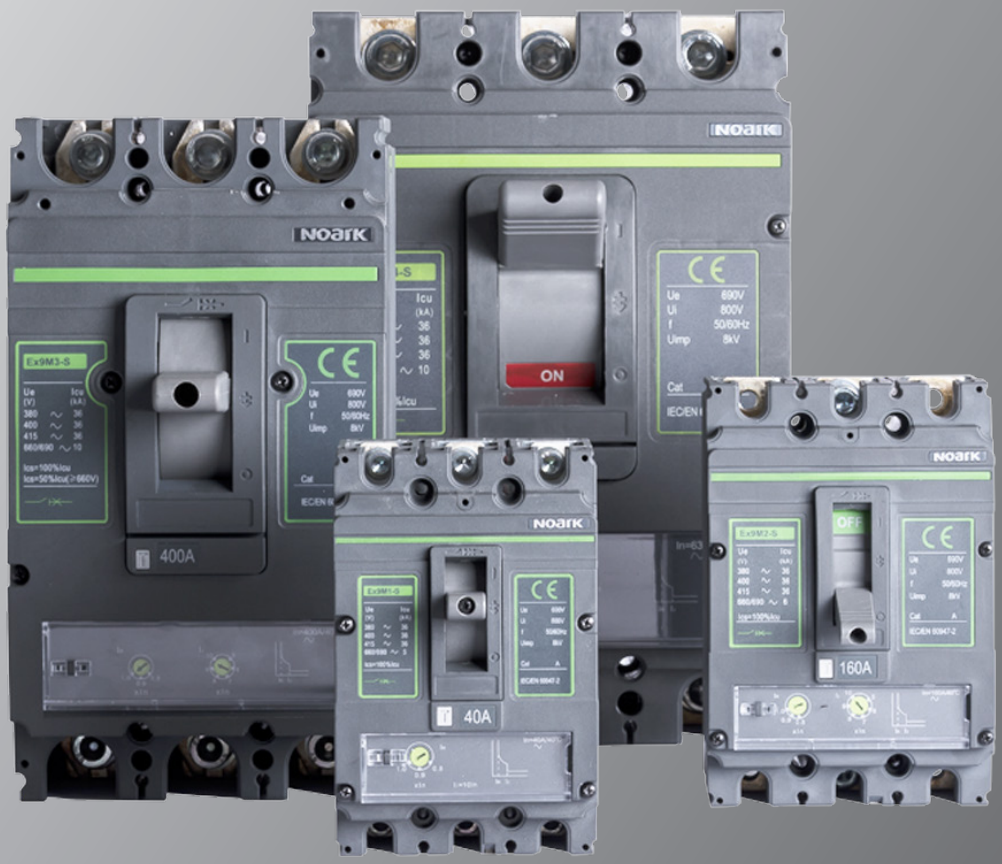
SWITCHES PLUS COMPONENTS

Circuit Protection

2027



Industrial electrical, automation and control products, including hard-to-source and specialist components, backed by technical expertise.

Switches Plus Components

SWITCHES PLUS COMPONENTS

Switches Plus Components is an Australian-owned specialist supplier of industrial electrical, control and automation products, supporting customers across Australia.

We've been working with switchboard builders, OEMs, machine builders, industrial electricians and engineers for more than 40 years, supporting projects where product selection, system integration and long-term performance all matter.

We act as the Australian distributor for over 40 suppliers, with over 10,000 items on our wesbite, and 5,000+ products stocked in our warehouse from leading global manufacturers, known for their quality, reliability and performance in industrial applications.

What We Do

We supply a broad range of industrial electrical, automation and control components suited to your application requirements, whether standard or specialist.

Our role extends beyond supplying part numbers. We focus on solving application challenges, ensuring product decisions align with system design, operating conditions and long-term performance requirements.

Access Specialist and Hard-to-Source Products

Not all projects align with standard, catalogue-based supply. Switches Plus supports applications where system constraints, integration requirements and operating conditions influence product selection. This includes sourcing specialist and hard-to-source components where only specific or niche products will meet the requirements of your application.

Work with a Technically Informed Team

Our team understands the industries our customers work in and how those environments shape product requirements. They work alongside you to provide practical technical input, so product decisions are based on what will perform in your application, not just what's available.

Industries and Applications

Switches Plus Components serves a wide range of customers and industries. Our customers include electrical contractors, switchboard builders, machine builders (OEMs), engineers and system integrators who work across many industries including:

- Defence
- Industrial automation
- Manufacturing plants
- Mining operations
- Utilities
- Infrastructure projects
- Renewable Energy
- Electrical Contractors

These are environments where product selection, technical input and operating conditions directly influence system performance and service life.

Our Mission

We make it easier for our customers to get the right industrial electrical, automation and control products for their application, so they can deliver reliable systems.

Our Vision

To contribute to reliable, well-performing industrial systems across the industries we support.

How We Work

We work from your application requirements
Product selection is guided by how your system is designed, built and expected to perform.

We focus on what will work in your application
Decisions are based on system requirements, operating conditions and long-term performance, not just availability.

We bring practical technical input
Our team understands the industries you work in and provides input that reflects how systems are built, installed and used.

We source beyond standard options when needed
We source components suited to your application, not limited to standard product ranges.

We work alongside you throughout the project
We respond quickly, communicate clearly and work with you to keep things moving.

National Coverage

Switches Plus Components supplies customers across Australia and New Zealand, supporting projects in metropolitan, regional and remote locations.

Contact Details

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Dandenong South, Victoria, 3175

Switches Plus Components

SWITCHES PLUS COMPONENTS

Our Brands

We work with a global network of suppliers, providing access to established brands used across industrial applications.

Product Range

We offer a wide range of industrial electrical components and automation solutions, from consumables through to specialised technical products. This includes both standard stocked products and specialist components sourced for applications where standard options do not meet your requirements.

Products are selected with compliance to relevant standards and appropriate IP ratings in mind, ensuring suitability for industrial environments and application requirements. Our product range includes:

- Automation Components
- Beacons & Alarms
- Cable
- Cable Management & Accessories
- Circuit Protection
- Connectors
- Contactors & Relays
- Enclosures
- Switches
- Terminals & Distribution Devices
- Timers & Monitoring Relays
- Transformers & Power Supplies

Switches Plus Components was established in 1997 through the strategic merger of C&K Electronics and Jesec Switches Plus. This union brought together more than 40 years of combined industry expertise, establishing our position as a market leader in electronic components.

A pivotal moment came in November 2012 when Switches Plus evolved from a traditional electronics components supplier into a comprehensive industrial solutions provider, transforming the company's trajectory and market presence. In February 2025, Switches Plus Components entered an exciting new chapter when it was acquired by Dore Electrics, a move that significantly strengthens the company's footprint in the Industrial Electrical and Automation market.

The partnership with Dore Electrics enhances our ability to deliver comprehensive electrical solutions while maintaining the high standards and customer-focused approach that has defined Switches Plus Components for over four decades.

Catalogues

Looking for something not in this catalogue? Don't worry, we have over 5000 stocked lines, and access to thousands more!











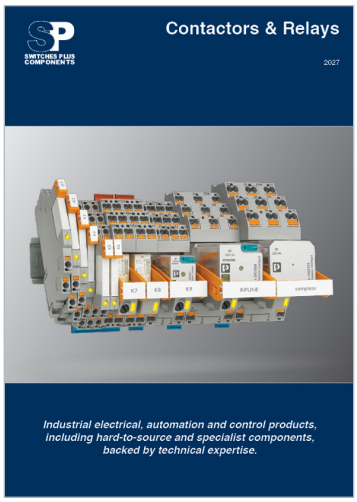



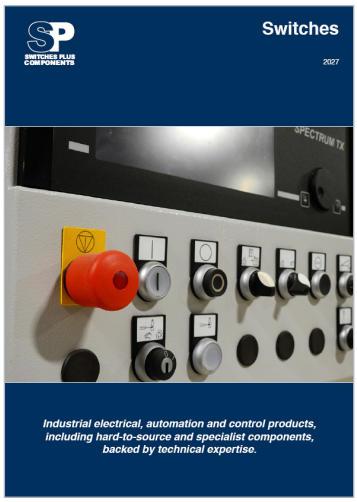

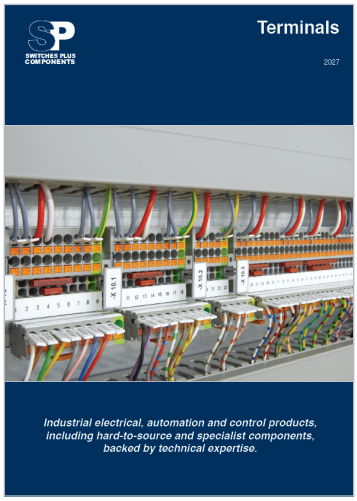





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DC Circuit Breakers

DC Miniature Circuit Breakers

Non Polarised

The Ex9B DC miniature circuit breakers (MCBs) from Noark are a reliable and versatile option for protecting electrical systems in a variety of settings. Ex9B MCBs are non-polarized, which means they can be used in both positive and negative polarity applications. They also have a high-rated short circuit breaking capacity, making them suitable for use in high-power applications.

If you are looking for a DC MCB that you can trust, then the Ex9B is the perfect choice for you.



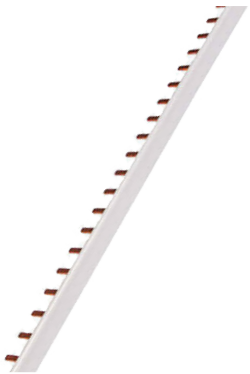


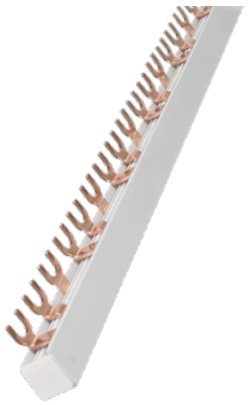



Current (A)	250V DC Double pole	360V DC Double pole	500V DC Double pole	600V DC Double pole	1000V DC Four pole	1C/O Aux Contacts
Series	Ex9B1E	Ex9BP	Ex9BP	Ex9BD125	Ex9BP	
10		84449	90118		90127	100540
16		84450	90120	90243	90129	100540
20		84451	90121	90244	90130	100540
25		84452	90122	90269	90131	100540
32		84453	90123	90270	90132	100540
40		84454	90124	90271	90133	100540
50		84455	90125	90272	90134	100540
63		84456	90126	90273	90135	100540
80				90274		100540
100				90275		100540
125	1000677					1002611

Busbar (Suit MCBs)

16mm² - 1mtr length - can be cut to size
54 Modules Wide
Pitch 17.8mm



	Busbar Pin Version 1-pole	Busbar fork 1-pole	Busbar fork 2-pole	Busbar fork 3-pole
Part Number	BSB00161P	BSB00141P	BSB00112	BSB90114A
Cap to suit	BSB00108	BSB00108	BSB00110	BSB00116A

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DC Circuit Breakers

DC Moulded Case Circuit Breakers

250V per pole, Non Polarised

Noark Ex9MD DC Moulded Case Circuit Breakers are intended mainly for photovoltaic and battery applications. Testing according to IEC / EN 60947-2 standards ensures reliability for a wide variety of applications, including isolation.






Current	80A	125A	160A	200A	250A	315A	400A	630A	800A
Frame	Ex9MD1B		Ex9MD2B			Ex9MD3B		Ex9MD4B	Ex9MD5B
Poles	2					3			
Voltage	500 V DC					750 V DC			
Part Number	852894	852896	852899	852901	852902	852722	852724	852763	852793
Dimensions	140 x 62 x109 mm		157 x 70 x 125 mm			255 x 140 x 172 mm		300 x 195 x 192 mm	

DC MCCB Accessories




Circuit breakers can be equipped with auxiliary contacts or shunt trips. The circuit breakers can also be equipped with a rotary handle with extended shaft for door coupling. Multiple cables can be brought together into one terminal using the tunnel terminal adaptors. Short and long terminal shields are also available to supplement the phase barriers that are supplied as standard with the MCCBs.







Current (A)	Frame Size	IP65 Enclosure	External Handle	Tunnel Terminal	24V DC Shunt	1 C/O Aux Contacts	Short Terminal Covers	Long Terminal Covers
80	Ex9MD1B	850771	20302		20292	852508	20304	20306
125								
160	Ex9MD2B		23188	103713 - Suits 6x 10-35 mm²	23179		23190	23192
200								
250								
315	Ex9MD3B	N/A	25121	103721 - Suits 4x 35-95 mm²			25123	25125
400								
630	Ex9MD4B		26920		26933		850983	26904
800	Ex9MD5B							

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AC Circuit Breakers

Single Pole RCBO
1P+N, 30mA, Type A



Current (A)	6kA
	C Curve
6	SFRSE1C06
10	SFRSE1C10
16	SFRSE1C16
20	SFRSE1C20
25	SFRSE1C25
32	SFRSE1C32
40	SFRSE1C40

AC Miniature Circuit Breakers



Current (A)	Single pole	
	6kA C Curve	10kA C Curve
2	SFRSM161C02	-
4	SFRSM161C04	-
6	SFRSM161C06	SFRSM9101C06
10	SFRSM161C10	SFRSM9101C10
16	SFRSM161C16	SFRSM9101C16
20	SFRSM161C20	SFRSM9101C20
25	SFRSM161C25	SFRSM9101C25
32	SFRSM161C32	SFRSM9101C32
40	SFRSM161C40	SFRSM9101C40
50	SFRSM161C50	SFRSM9101C50
63	SFRSM161C63	SFRSM9101C63



3 pole		
6kA C Curve	10kA C Curve	10kA D Curve
-	-	-
-	-	-
SFRSM163C06	SFRSM9103C06	SFRSM9103D06
SFRSM163C10	SFRSM9103C10	SFRSM9103D10
SFRSM163C16	SFRSM9103C16	SFRSM9103D16
SFRSM163C20	SFRSM9103C20	SFRSM9103D20
SFRSM163C25	SFRSM9103C25	SFRSM9103D25
SFRSM163C32	SFRSM9103C32	SFRSM9103D32
SFRSM163C40	SFRSM9103C40	SFRSM9103D40
SFRSM163C50	SFRSM9103C50	SFRSM9103D50
SFRSM163C63	SFRSM9103C63	SFRSM9103D63

AC Moulded Case Circuit Breakers
690V AC

CBI offers a comprehensive range of power distribution products that are designed and manufactured to meet the challenges of modern installations. Compact frame sizes with high capacities to match their flexible capabilities.

Current (A)	Breaking Capacity (kA)	No of Poles	Trip unit (release)			Frame Size	Dimensions (mm)	Part Number
			Magnetic	Thermal	Electronic			
100	50	3	Fixed	Adjustable		1	105 x 160 x 86	F50DV100
125	50	3	Fixed	Adjustable		1	105 x 160 x 86	F50DV125
160	50	3	Fixed	Adjustable		1	105 x 160 x 86	F50DV160
200	50	3	Fixed	Adjustable		1	105 x 160 x 86	F50DV200
250	50	3	Fixed	Adjustable		1	105 x 160 x 86	F50DV250
160 - 400	65	3			Adjustable	2	140 x 260 x 110	K65DEV400
252 - 630	65	3			Adjustable	2	140 x 260 x 110	K65DEV630



Common accessories across all frame sizes from auxiliaries, alarm contacts, shunts, under-voltage trips (UVT's).

Trip units		
Voltage	Undervotage	Shunt
24V AC/DC	CS-UVT800-24	CS-SHT800-24
230V AC/DC	CS-UVT800-230	CS-SHT800-230
415V AC	CS-UVT800-415	CS-SHT800-415

Contact Blocks	
Part number	Function
CS-AUX160-800	Aux 1CO
CS-ALM160-800	Alarm
CS-AUXTRPIN800	Fault trip

Handles			Terminal Cover (pair)	
Frame	Direct	Extension	Short	Long
1	CS-DH250	CS-EH250	CS-ITS23	CS-ITL23
2	CS-DH630	CS-EH630	CS-ITS33	CS-ITL33

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Load Centres

IP65 Load Centres
Surface Mount









4 Pole	6 Pole	9 Pole	12 Pole
LK107-4P	LK165-6P	LK219-9P	LK273-12P







18 Pole	24 Pole	36 Pole
LK381-18P	LK273-24P	LK273-36P

MCB Covers
IP20







	Single Pole	2 Pole	4 Pole
Part Number	MP1P	MP2P	MP4P



Load Centre Pole fillers - 15 x 9mm half pole plate	
Part Number	LK15P

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LIFETIME WARRANTY

BUILD WITH CONFIDENCE

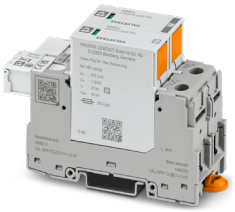
Dedication to quality and innovation, united with our strong commitment to provide customer peace-of-mind, form the foundation of this exclusive Phoenix Contact warranty program. For customers participating in our Complete Cabinet Confidence Lifetime Warranty (LW) program, Phoenix Contact Australia will warrant many of our products to be free from defects in workmanship and materials for the lifetime of the product. Registration is required, and certain restrictions apply.
For more information: www.phoenixcontact.com/en-au/au-lifetime-warranty

PHOENIX CONTACT

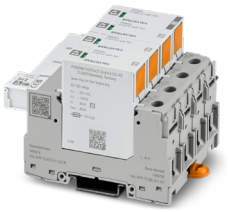
Surge Protection
With Plug-in Modules

Type 2 surge protection constitutes the second stage in the protection concept and is installed after the type 1 SPD. To protect the system against damage, e.g., caused by switching operations, the type 2 surge protective device further limits the remaining surge voltage. Type 2 SPDs are used in the subdistribution or machine control cabinets, where no direct lightning currents occur. The type 1+2 special combined lightning current and surge arrester is perfectly suited for maximum protection of installations and devices.









	VAL-SPP-T2-275-1+0-UT-R	VAL-SPP-T2-275-1+1-UT-R	VAL-SPP-T2-335-3+0-UT-R	VAL-SPP-T2-275-3+1-UT-R
Power supply	Single Phase		Three Phase	
System	2-conductor: L, N/PEN	3-conductor: L1, N, PE	4-conductor: L1, L2, L3, PEN	5-conductor: L1, L2, L3, N, PE
Protection	Type 2			
Remote Contact	Yes			
Part Number	1466210	1466212	1466599	1466214









	VAL-SPP-T2-600DC-PV-2+V-UT-R	VAL-SPP-T2-600DC-PV-2+V-UT	VAL-SPP-T2-1000DC-PV-2+V-UT-R	VAL-SPP-T2-1000DC-PV-2+V-UT
Power supply	600V DC		1000V DC	
System	Insulated and grounded PV Systems			
Protection	Type 2			
Remote (AUX)	Yes	No	Yes	No
Part Number	1466771	1466770	1466773	1466772









	VAL-SPP-T1-1000DC-PV-2+V-UT-R	VAL-SPP-T1-1000DC-PV-2+V-UT	VAL-SPP-T2-1500DC-PV-2+V-UT-R	VAL-SPP-T2-1500DC-PV-2+V-UT
Power supply	1000V DC		1500V DC	
System	Insulated and grounded PV Systems			
Protection	Type 1/2, Lightning/Surge arrester		Type 2	
Remote (AUX)	Yes	No	Yes	No
Part Number	1466777	1466776	1466775	1466774

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Measurement, Control and Regulation

TERMITRAB complete

In measurement and control technology (MCR technology), surge protection ensures interference-free signal transmission. The high quality and availability of the transmitted signals is essential for smooth operation. Our surge protective devices offer an ideal solution for all applications in MCR technology. System failures can thus be avoided.

TERMITRAB complete is the world's narrowest surge protection solution for MCR technology. This product family provides you with a complete system. It ranges from simple, single-stage surge protection to multi-stage, pluggable versions with knife disconnection, signaling, and remote signaling option.

The narrowest surge protective devices are just 3.5 mm wide. This represents space savings of up to 50% compared to installations with a 7 mm overall width.

The protective devices in the TERMITRAB complete family provide mechanical signaling that indicates the status of the protective devices without the need for additional auxiliary power. Optional remote signaling modules visually monitor up to 40 protective devices. In the event of a thermal overload, the remote signaling modules notify the control room, for example, of the status in the form of a group message via a floating contact.



Signal	Connection	Voltage	Type	Width (mm)	Ground	Design	Monitoring	Description	Part Number
Optional Remote Signalling Set	Screw	10-36 VDC	FMRS	6.2mm x 2	Direct	NA	Remote Relay	TTC-6-FMRS-UT	2907811
	Push-in							TTC-6-FMRS-PT	2907811
Floating (Analogue / Loop / Relay Contact)	Screw	12 VDC	1X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-1X2-12DC-UT-I	2908192
		24 VDC				Non-Pluggable	None	TTC-6-1X2-24DC-UT	2906798
						Pluggable	Local (Flag)	TTC-6P-1X2-24DC-UT-I	2906809
					Floating			TTC-6P-1X2-F-24DC-UT-I	1065317
		48 VDC			Direct			TTC-6P-1X2-48DC-UT-I	2908194
	Push-in	5 VDC	3					TTC-6P-3-5DC-PT-I	1061385
		12 VDC	1X2					TTC-6P-1X2-12DC-PT-I	2908193
		24VDC		3mm		Non-Pluggable	None	TTC-3-1X2-24DC-PT	2907325
				6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-1X2-F-24DC-PT-I	1065318
					Direct			TTC-6P-2X2-24-PT-I	1334595
		48 VDC						TTC-6P-1X2-48DC-PT-I	2908195
Common Reference (Digital)	Screw	12 VDC	2X1					TTC-6P-2X1-12DC-UT-I	2908201
		24 VDC						TTC-6P-2X1-24DC-UT-I	2906810
					Floating			TTC-6P-2X1-F-24DC-UT-I	1065319
		48 VDC						TTC-6P-2X1-F-48DC-UT-I	2908208
	Push-in	24 VDC		3mm	Direct	Non-Pluggable	None	TTC-3-2X1-24DC-PT	2907326
				6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-2X1-F-M-24DC-PT-I	2906794
			4X1		Direct			TTC-6P-4X1-24-PT-I	1334594
		48 VDC	2X1					TTC-6P-2X1-48DC-PT-I	2908204
Data (1 Mbps)	Screw	12 VDC	HF					TTC-6P-3-HF-M-12DC-UT-I	2906744
					Floating			TTC-6P-3-HF-F-M-12DC-UT-I	2906786
	Push-in				Direct			TTC-6P-3-HF-M-24DC-PT-I	2906756
					Floating			TTC-6P-3-HF-F-M-24DC-PT-I	2906797
1 Mbps	Screw							TTC-6P-3-APL-24DC-UT-I	1635592
High Current (6A)		24 VDC	HC					TTC-6P-2-HC-M-24DC-UT-I	2906743
	Push-in							TTC-6P-2-HC-M-24DC-PT-I	2906755
Add-on Fuse Holder	Screw	60 VDC	6.3A max		N/A	5x20mm Fuse	N/A	TTC-6-FC-UT	1054762

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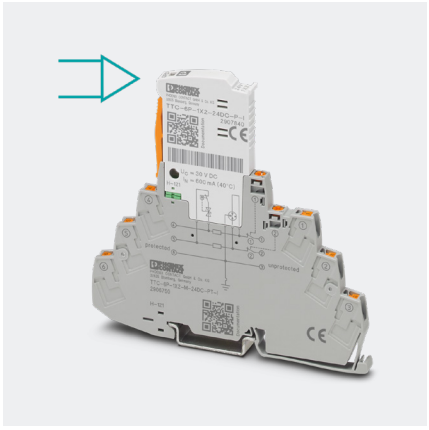
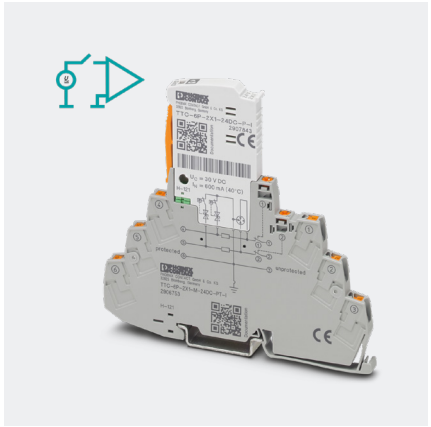
Surge Protection



Isolated Signal Circuits

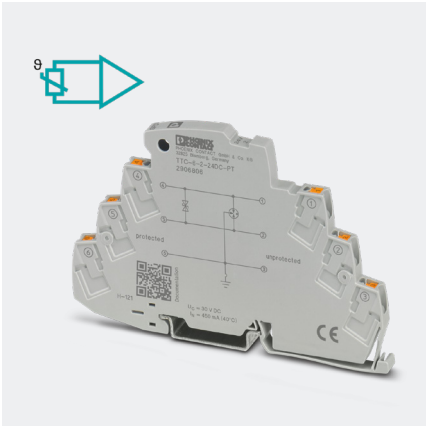
Analog measured variables such as speed, pressure, flow, etc. are recorded by sensors and converted into current or voltage values by measuring transducers. They are transmitted to the controller or the isolator module within a standardized value range. The “1x2 circuit” is typically used for this type of analog transmission method.

Transient coupled in surge voltages can cause damage both on the field device and centrally. You should therefore equip both of these end points with surge protection for MCR technology.



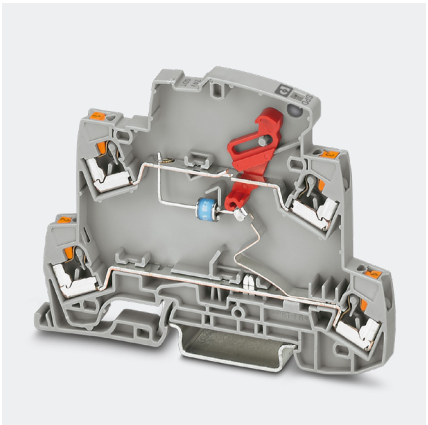
Signals with common reference potential

Switching states and signal contacts are typical signals that are recorded with the binary inputs of controllers. The controllers also switch actuators such as solenoid valves. Use suitable surge protection to protect the sensitive inputs and outputs of controllers. The individual binary signals are often connected against a common reference potential. Typical arrangements that take into account this common reference potential are provided by what are referred to as 2x1 or 4x1 circuits.



Resistance dependant measurements

If a measured variable is determined directly based on the resistance value of an electrical component, the additional impedances within the measuring loop play a special role. This affects, for example, temperature measurements with platinum resistance detectors (Pt 100, Pt 1000) as well as strain gauges with two-wire technology. As a rule, MCR surge protection products contain impedances in the common mode paths. If the impedances are introduced into the circuit without recalibration, the measurement result will be falsified due to the change in the total impedance. Circuit versions without additional longitudinal resistances simplify the installation of surge protection in applications of this kind.



Single stage potective devices

Ideally, a surge protection concept should have a multi-stage design. This involves the optimum arrangement of components that respond quickly, such as suppressor diodes, and powerful protective devices such as gas discharge tubes. The gap between these two protection stages is closed by varistors. They take longer to activate than diodes, but have a higher discharge capacity.

Single-stage protective devices are only equipped with one component. They are suitable, for example, for the additional protection of long cables from the field, at the building entrance, or at the transition between different protection zones. Single-stage protective devices with common mode voltage protection provide protection against surge voltages between the individual signal wires. Versions with normal mode voltage protection provide protection for the wires and ground.

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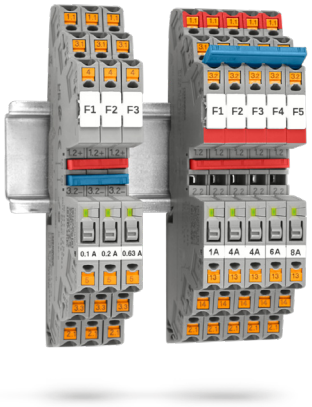
Narrow Circuit Breakers

Narrow PTCB Circuit Breaker

Single Channel Electronic Circuit Breakers

Ideally suited to simple, space-saving potential distribution: the PTCB single-channel electronic circuit breaker can be bridged to the CLIPLINE complete terminal block system and offers an adjustment range from 0.1 to 8 A with a narrow overall width.

- Simple application setup with the capability of bridging to the CLIPLINE complete terminal block range
- More space in the control cabinet: protection with a width of just 6 mm
- Flexible use and lower inventory stocks due to adjustable current values on each device for a wide range of applications
- Always be informed - whether on site or remotely. PTCB eFuse reports the current operating status and can be reset at any time. This facilitates the clear detection and precise localization of errors. Benefit from shorter response times compared to conventional protection and reduce costly service calls.



Current (A)	Voltage Rating	Adjustable	Description	Status Output	Reset Input	Part Number
1-4A	24V DC	✓	PTCB E1 24DC/1-4A SI-R	✓	✓	1135753
1-8A		✓	PTCB E1 24DC/1-8A SI-R	✓	✓	1135752
1A			PTCB E1 24DC/1A SI-R	✓	✓	1135751
2A			PTCB E1 24DC/2A SI-R	✓	✓	1135749
4A			PTCB E1 24DC/4A SI-R	✓	✓	1135745
6A			PTCB E1 24DC/6A SI-R	✓	✓	1135740
8A			PTCB E1 24DC/8A SI-R	✓	✓	1135734
1-3A		✓	PTCB E1 24DC/1-3A NO	Relay NO		2909909
1-4A		✓	PTCB E1 24DC/1-4A NO	Relay NO		2908261
1-8A		✓	PTCB E1 24DC/1-8A NO	Relay NO		2908262
1-8A		✓	PTCB E1 24DC/1-8A NO2	Relay NC		1388391
1A			PTCB E1 24DC/1A NO	Relay NO		2909902
2A			PTCB E1 24DC/2A NO	Relay NO		2909903
3A			PTCB E1 24DC/3A NO	Relay NO		2909904
4A			PTCB E1 24DC/4A NO	Relay NO		2909906
6A			PTCB E1 24DC/6A NO	Relay NO		2909908
8A			PTCB E1 24DC/8A NO	Relay NO		2909910

Current (A)	Voltage Rating	Adjustable	Description	Status Output	Reset Input	Part Number
0.1 - 0.63A	12 - 24V DC	✓	PTCB E1 24DC/0.1-0.63A SI-R	✓	✓	1441496
0.1A			PTCB E1 24DC/0.1A SI-R	✓	✓	1464483
0.2A			PTCB E1 24DC/0.2A SI-R	✓	✓	1361049
0.5A			PTCB E1 24DC/0.5A SI-R	✓	✓	1361051
0.63A			PTCB E1 24DC/0.63A SI-R	✓	✓	1464485
0.1 - 0.63A		✓	PTCB E1 24DC/0.1-0.63A NO	Relay NO		1441495
0.1A			PTCB E1 24DC/0.1A NO	Relay NO		1464484
0.2A			PTCB E1 24DC/0.2A NO	Relay NO		1361055
0.5A			PTCB E1 24DC/0.5A NO	Relay NO		1361051
0.63A			PTCB E1 24DC/0.63A NO	Relay NO		1464486

Current (A)	Voltage Rating	Adjustable	Description	Status Output	Reset Input	Part Number
1-6A	48V DC	✓	PTCB E1 48DC/1-6A NO	Relay NO		1471917
2A			PTCB E1 48DC/2A NO	Relay NO		1471918

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Electronic Circuit Breakers

CAPAROC: Modular Electronic Circuit Breaker System

For 12V and 24V device use

CAPAROC is your individual modular system for overcurrent protection. With versatile combination options, easy operation, and rapid design-in, CAPAROC is a fully tailored benchmark in device protection. Using this system, you are perfectly positioned for the future.

- Choose your required power module - Basic, IO-LINK, or Profinet Comms
- Select your length of current rails for the DIN mounting (based on 6.2mm = 1 slot wide)
- What circuit breaker modules do you require - 4 channel, 2 channel, or 1 channel?
- Do you want a 0V DC distribution module?



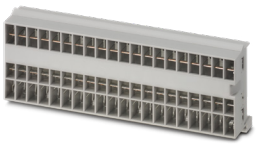
CAPAROC Power Module

Part Number	Comms	Voltage	Width	Description
1115661	Basic	12 - 24V DC	2 slots	CAPAROC PM S-R
1110986	IO-LINK			CAPAROC PM IOL
1110986	Profinet		4 slots	CAPAROC PM PN
1393553	Ethernet / IP		4 slots	CAPAROC PM EIP
1687559	Modbus/TCP		4 slots	CAPAROC PM MB
1687560	EtherCat		4 slots	CAPAROC PM EC



CAPAROC Current Rails (TOTAL CURRENT = 45A)

Part Number	Size	Voltage	Width	Description
1115672	CR8	12 - 24V DC	8 Slots	CAPAROC CR 8
1110989	CR20		20 Slots	CAPAROC CR 20
1110991	CR4-EXT		4 Slots	CAPAROC CR EXT4
1110990	CR8-EXT		8 Slots	CAPAROC CR EXT8
1115674	CR20-EXT		20 Slots	CAPAROC CR EXT20
1270955	CR-CON		N/A	CAPAROC CR CON



CAPAROC Electronic Circuit Breaker Modules

Part Number	Current	Channels	Voltage	Width	Description
1115658	1-10A	4	12 - 24V DC	2 Slots	CAPAROC E4 12-24DC/1-10A
1115657	1-4A	4		2 Slots	CAPAROC E4 12-24DC/1-4A
1110984	2-10A	2		2 Slots	CAPAROC E2 12-24DC/2-10A
1115655	1-4A	2		2 Slots	CAPAROC E2 12-24DC/1-4A
1115649	1-10A	1		1 Slot	CAPAROC E1 12-24DC/1-10A
1115415	1-4A	1		1 Slot	CAPAROC E1 12-24DC/1-4A
1157284	10A	1		1 Slot	CAPAROC E1 12-24DC/10A
1157279	8A	1		1 Slot	CAPAROC E1 12-24DC/8A
1157286	6A	1		1 Slot	CAPAROC E1 12-24DC/6A
1157285	4A	1		1 Slot	CAPAROC E1 12-24DC/4A
1157290	2A	1		1 Slot	CAPAROC E1 12-24DC/2A
1157288	1A	1		1 Slot	CAPAROC E1 12-24DC/1A
1115663	12-20A	1		1 Slot	CAPAROC E1 12-24DC/12-20A
1524929	12A	1		1 Slot	CAPAROC E1 12-24DC/12A
1115666	16A	1		1 Slot	CAPAROC E1 12-24DC/16A
1110987	0 VDC Distribution Module			1 Slot	CAPAROC PD 0V



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Electronic Circuit Breakers

Multi-Channel Electronic Circuit Breakers

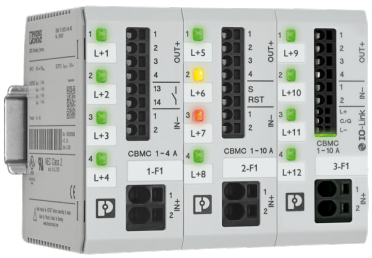
Thanks to their intelligent analysis and signaling of faults, electronic circuit breakers are a perfect way to monitor system states. They can be used to protect your system components and switched-mode power supply units against failure. Thanks to the various remote signaling functions of the electronic circuit breakers, you can see the status of your system anywhere and anytime.

CBM : Setting a circuit breaker was never so easy. With the integrated nominal current assistant, selecting the appropriate current for the connected load is incredibly easy. This makes configuration fast, convenient, and simple.

CBMC : The CBMC electronic circuit breaker precisely meets your requirements: it combines a compact design and individual adjustability. This means that you can easily and flexibly adjust currents, save space, and reliably protect all applications with just a single device.



Part Number	Channels	Current Rating	Function	Description
2905743	4	0.5-10A	Full feature/function model	CBM E4 24DC/0.5-10A NO-R
2905744	8	0.5-10A	Full feature/function model	CBM E8 24DC/0.5-10A NO-R
1065727	4	1-4A	Remote reset version	CBMC E4 24DC/1-4A S-R
1065729	4	1-10A	Remote reset version	CBMC E4 24DC/1-10A S-R
2906031	4	1-4A	Status output version	CBMC E4 24DC/1-4A NO
2906032	4	1-10A	Status output version	CBMC E4 24DC/1-10A NO
2910410	4	1-4A	I/O link version	CBMC E4 24DC/1-4A+ IOL
2910411	4	1-10A	I/O link version	CBMC E4 24DC/1-10A IOL
1065730	4	1-8A	Galvanically isolated version	CBMC EG4 24DC/1-8A NO



Thermal Circuit Breaker

12.3mm wide

The UT 6-TMC M series are resettable, single-pole circuit breakers with screw connections, rated at 240V AC and 28V DC.

Tripped circuit breakers on the TMC are clearly indicated and can be easily reset with the press of a button. The series is available in 11 graded steps for nominal currents from 0.5 to 16 A. Two bridge shafts simplify distribution.

Measuring just 12.3 mm wide, the UT 6-TMC M circuit breakers occupy 30 percent less space than conventional 17.5 mm circuit breakers. The series is part of Phoenix Contact's CLIPLINE Complete system, which features standardized push-in bridging, marking, and testing accessories for all connection technologies.



Part Number	Current	Description
0916603	0,5A	UT 6-TMC M 0,5A
0916604	1A	UT 6-TMC M 1A
0916605	2A	UT 6-TMC M 2A
0916606	4A	UT 6-TMC M 4A
0916607	5A	UT 6-TMC M 5A
0916608	6A	UT 6-TMC M 6A

Part Number	Current	Description
0916609	8A	UT 6-TMC M 8A
0916610	10A	UT 6-TMC M 10A
0916611	12A	UT 6-TMC M 12A
0916612	15A	UT 6-TMC M 15A
0916613	16A	UT 6-TMC M 16A

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Thermal Circuit Breakers

Thermal Circuit Breaker

Fits Automotive Fuse Holder

1-channel thermal device circuit breaker for protecting loads at 250 V AC / 72 V DC in the event of an overload. For installation on fuse terminal blocks and interfaces for flat plug-in fuse of type C according to standard ISO 8820-3.

- Fast, replacement part-free recommissioning after an event with the reconnection options
- Easy to retrofit in existing systems with vehicle flat-type fuses with identical pin connector pattern
- System disconnection for maintenance actions via the integrated device switch

Current (A)	Part Number	Voltage Rating
0.5	712152	250 V AC / 72 V DC
1	712194	
2	712217	
3	712233	
4	712259	
6	712275	
8	712291	
10	712314	



The TCP DC device circuit breakers are the resettable alternative for your automotive fuses. Easily retrofit your applications and reduce on-site service effort. The portfolio offers optimum overload protection for your application with two characteristic curves.

- Resettable, thus enabling fast restart after a fault as replacement parts are not needed
- Easy retrofitting of existing systems with automotive fuses due to the identical pin connector pattern
- Optimum overload protection for connected loads due to the choice of different characteristic curves

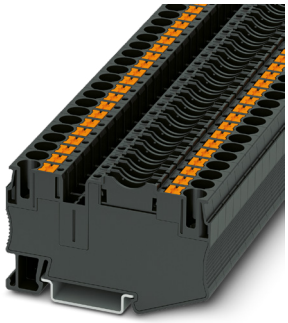
Current (A)	Fast Acting	Slow Acting	Voltage Rating
5	1499939	1499963	32V DC
6	1499940	1499965	
7.5	1499941	1499966	
10	1499942	1499967	
15	1499943	1499968	
20	1499944	1499969	
25	1499945	1499972	
30	1499946	1499987	



Fuse holder to suit.

3212166 - Fuse modular terminal block, fuse type: Blade, fuse type: Type C / max. 2.2 W, nom. voltage: 400 V, nominal current: 25 A, connection method: Push-in connection, Rated cross section: 6 mm2, cross section: 0.5 mm2- 10 mm2, mounting type: NS 35/7,5, NS 35/15, color: black

3036372 - Fuse modular terminal block, fuse type: Blade, fuse type: C, nom. voltage: 400 V, nominal current: 30 A, connection method: Spring-cage connection, 1 level, Rated cross section: 4 mm2, cross section: 0.08 mm2- 6 mm2, mounting type: NS 35/7,5, NS 35/15, color: black



Part Number	Description
3212166	Push-in Din Mounted Fuse Holder
3036372	Spring Clamp Din Mounted Fuse Holder

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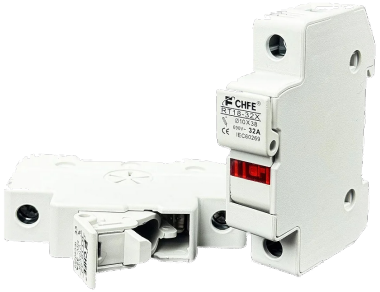
Fusing

10x38 Fuse Holders
Cylindrical Fuses



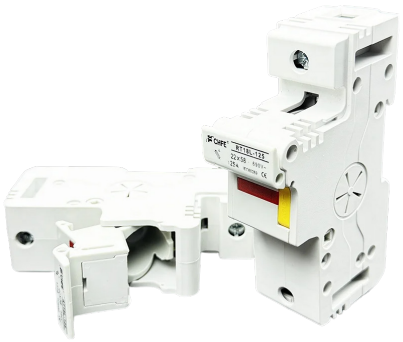
Poles	gG - 500V AC	gPV - 1000V DC
1 pole	RT18-32-1	IS506121A
2 pole		IS506122A
3 pole	RT18-32-3	

14x51 Fuse Holders
Cylindrical Fuses



14x51
RT18-63-1
RT18-63-3

22x58 Fuse Holders
Cylindrical Fuses



22x58
RT18-125-1
RT18-125-3

10x38 Fuses
Cylindrical Fuses



Current	690V AC gG	1000V DC gPV
1A	RT18-1A	
2A	RT18-2A	
4A	RT18-4A	ISV10004
6A	RT18-6A	ISV10006
8A		ISV10008
10A	RT18-10A	ISV10010
12A		ISV10012
16A	RT18-16A	ISV10016
20A	RT18-20A	ISV10020
32A	RT18-32A	

14x51 Fuses
Cylindrical Fuses



Current	690V AC gG
40A	RT18-40A
50A	RT18-50A
63A	RT18-63A

22x58 Fuses
Cylindrical Fuses



Current	690V AC gG
80A	RT18-80A
100A	RT18-100A
125A	RT18-125A

Automotive Fuses



Current	32V Auto Fuse
1A	4991.0
2A	4992.0
3A	4993.0
4A	4994.0
5A	4995.0
7.5A	4996.0
10A	4997.0
15A	4998.0

20x5mm M205 Fuses



Current	20 x 5 mm Fast Acting
0.315A	M205-315mA
1A	M205-1A
1.6A	M205-1.6A
2.5A	M205-2.5A
3.15A	M205-3.15A
4A	M205-4A
6.3A	M205-6.3A
8A	M205-8A
10A	M205-10A

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NH Fuse Load Break Disconnectors

IEC/EN 60947-3, VDE 0660/107

- Integrated infringe-protection side and top
- Contactless fuse take out
- Closing part sealable and lockable
- Park position for closing part
- Patented voltage measuring slots, tool-bound open, without tools close







Current Rating	160A	250A	400A
Size	NH00	NH1	NH2
Stud Size	M8	M10	M10
H x W x D (mm)	195 x 106 x 84	298 x 184 x 117	298 x 210 x 134
Part Number	ISA05222-A	ISA05226-A	ISA05250-A

NH Fuse Links

500 V a.c., class gG/gL

Description

- A square bodied range of industrial fuse links for a wide variety of applications.

Standards

- IEC 60269-1 and 2, VDE 0636, DIN 43620 and CE

Technical data

- Rated voltage: 500 V ac
- Operating class: gG/gL
- Breaking capacity: 120 kA AC
- Operating frequency:45-62 Hz



Current	NH000	NH00	NH1	NH2	NH3
50A	50NHG000B				
63A	63NHG000B		63NHG01B		
80A	80NHG000B				
100A	100NHG000B		100NHG01B		
125A		125NHG00B	125NHG01B		
160A		160NHG00B	160NHG01B		
200A			200NHG01B	200NHG2B	
250A			250NHG01B	250NHG2B	
315A				300NHG2B	
400A				400NHG2B	400NHG3B
500A					500NHG3B
630A					630NHG3B

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