

Power & Signal Quality TRABTECH

Device circuit breakers

**Selective power distribution:
branch out, individual adaptation,
modular extension**

Interference-free mains supply and signal transmission

A constant power supply and secure data links are especially important for the operational reliability of electrical systems, installations, and devices.

Phoenix Contact meets all of these requirements with the TRABTECH product line. Coordinated solutions consisting of surge protection, monitoring, device circuit breakers, and EMC products offer consistently high power and signal quality for maximum availability.



Surge protection



Monitoring



Device circuit breakers

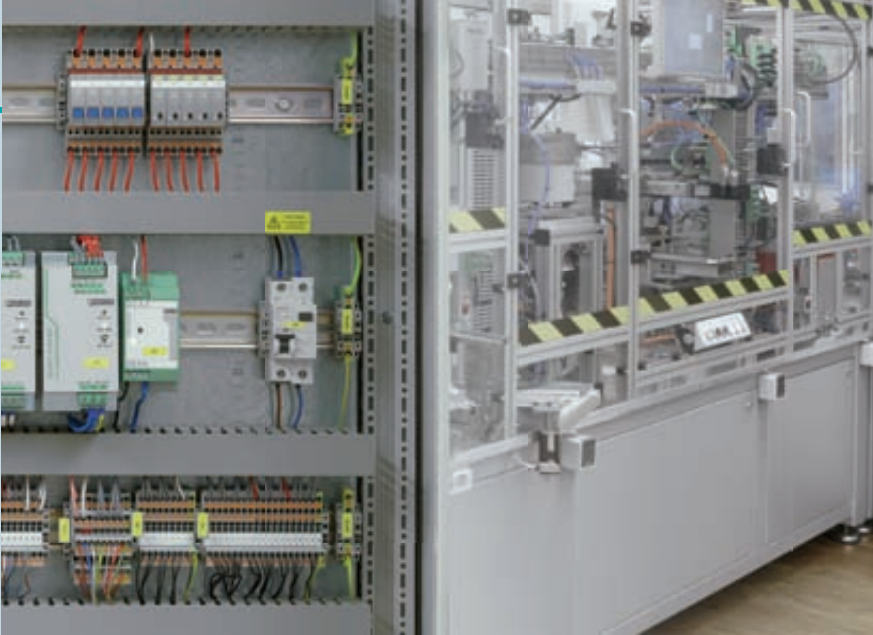


EMC solutions



Services

Selective fuse protection for circuits



Reliable protection in the event of harmful overload and short-circuit currents

System failures can be caused by various factors. A permanent overload, for example, can damage the load and lead to the downtime of the system or a system part.

Provide selective fuse protection for the control circuits in your systems in order to increase system availability.

In practice, around 90% of all systems are operated with 24 V DC control voltages.

Valves 0.5 to 4 A

Motors 1 to 12 A

Relays 0.5 to 5 A

Programmable controllers 1 to 8 A

Sensors/actuators 0.5 to 2 A

Typical nominal currents of electrical loads

The different nominal currents of the various loads reveal the desirability of selective protection for the individual circuits. And you will find the perfect device circuit breaker for almost any nominal current.

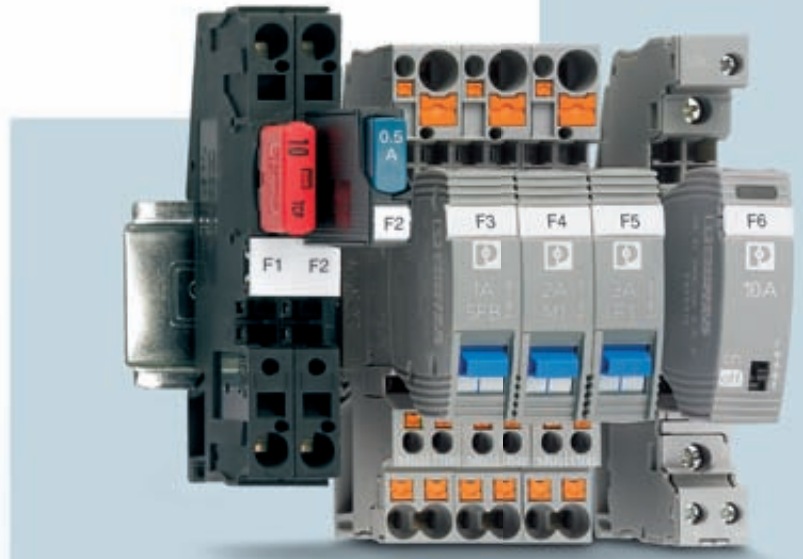
Table of contents

High-quality device circuit breakers offer safety for your systems	Page 4
Electronic device circuit breakers	Page 6
Thermomagnetic device circuit breakers	Page 8
Thermal device circuit breakers	Page 10
Device circuit breaker board	Page 12
Product overview and selection guide	Page 14
Configuration matrix for CB device circuit breakers	Page 19
QUINT POWER – power supply units for maximum system availability	Page 22

High-quality device circuit breakers offer safety for your systems

Device circuit breakers are a key factor in high system availability. In the event of overload and short circuit, they selectively shut down the faulty circuit. All other system parts remain in operation.

- Thermal circuit breakers
- Thermomagnetic circuit breakers
- Electronic circuit breakers



Versatile use –

device circuit breakers with various tripping mechanisms

We offer the right solution for every application.

Select the right circuit breaker plus a base element with push-in or screw connection technology.

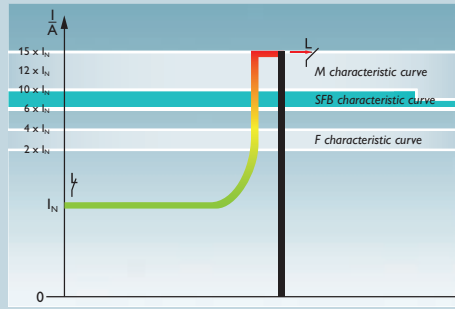
Shutdown behavior of device circuit breakers

	Release time in the event of an overload	Release time in the event of a short circuit	Your application is optimally protected in the event of
Thermal circuit breakers	■ Suitable	■ Unsuitable	<ul style="list-style-type: none"> • Overload
Thermomagnetic circuit breakers	■ Suitable	■ Ideal	<ul style="list-style-type: none"> • Overload • Short circuit • Long cable paths (SFB tripping characteristic)
Electronic circuit breakers	■ Ideal	■ Ideal	<ul style="list-style-type: none"> • Overload • Short circuit • Long cable paths (active current limitation)



Modular extension

It couldn't be easier. Extend your system with additional device circuit breakers in no time at all. It is even possible to pre-wire your system on-site with a customized plug selection. The uniform, plug-in housing concept as well as the bridgeability of the base elements simplify installation.



Branch out

Thermomagnetic device circuit breakers with the SFB tripping characteristic* provide maximum overcurrent protection – even in large systems with long cable paths. The characteristic curve:

- Prevents the device from being shut down unnecessarily early in the event of brief current increases, such as starting currents, during operation
- Also prevents undesirable, long overload currents that may be linked to hazardous heat generation in the equipment



Individual adaptation

With the unique bridge system from the CLIPLINE complete range of accessories, the device circuit breakers can also be combined easily and individually. Potentials of the same type can be connected quickly and safely.

You can extend the power distribution, modify the signal string or bridge the auxiliary voltage for the electronic device circuit breakers without this resulting in significant wiring costs.

QUINT POWER: cost-effective selective fuse protection with SFB technology

In order to trip device circuit breakers magnetically and therefore quickly, power supply units must be able to supply several times the nominal current for a short period. With SFB technology*, which supplies up to six times the nominal current for 12 ms, this power reserve is now available for the first time with QUINT POWER.

Example:

Frayed display cable: the fuse trips, the lower-level display is dark. The controller, sensors, and actuators continue to operate without interruption. Production continues.

Combine the CB device circuit breakers with QUINT POWER power supply units. The SFB technology* provides maximum protection for your cables and devices.

*SFB = Selective Fuse Breaking
Selective shutdown



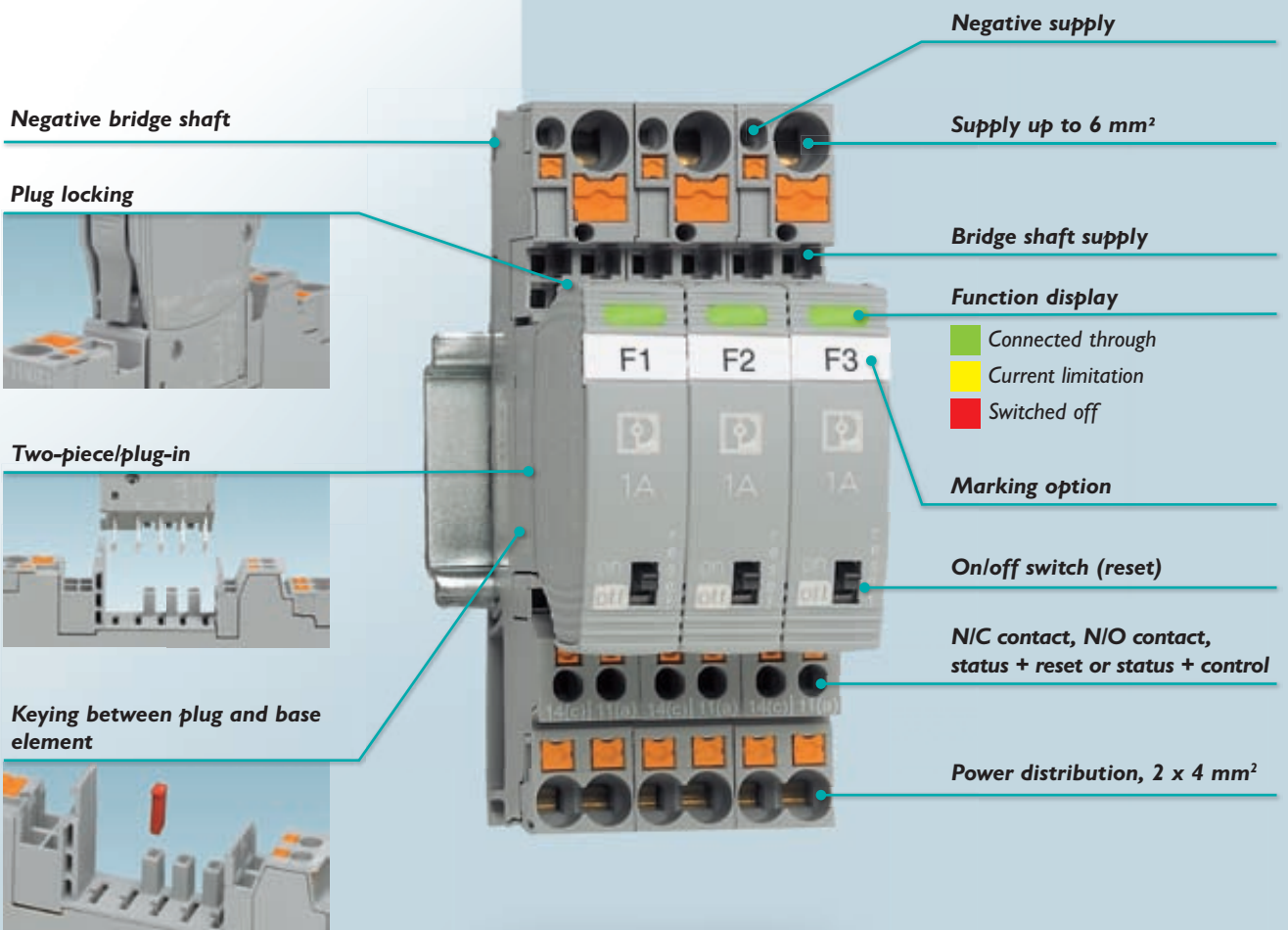
→ For further information on QUINT POWER, see page 22

Electronic device circuit breakers

Electronic device circuit breakers are often used in automation and communication technology.

The active current limitation prevents the interruption of the output voltage at the switched-mode power supply unit in the event of an error. All other circuits thereby remain unaffected.

- Compact design with precise nominal current levels
- Modular extension possible thanks to the uniform, plug-in housing concept
- Sophisticated remote signaling concept enables monitoring from any location
- The reset or control input can be switched by means of remote control
- Active current limitation, even when switching capacitive loads
- Supply/remote signaling can be bridged with CLIPLINE complete accessories
- Variable connection technology: either push-in or screw connection



Tripping characteristics

In the event of a short circuit, electronic device circuit breakers trip within a few milliseconds. Here the existing current is limited to 1.25 times the nominal current. Even with a high cable resistance, the circuit breakers disconnect the circuit within the shortest possible time.

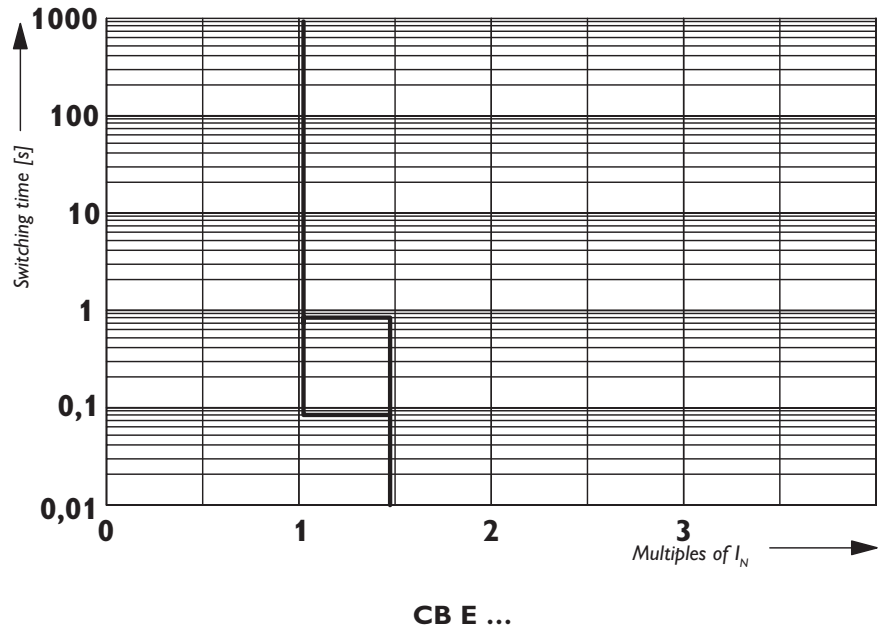
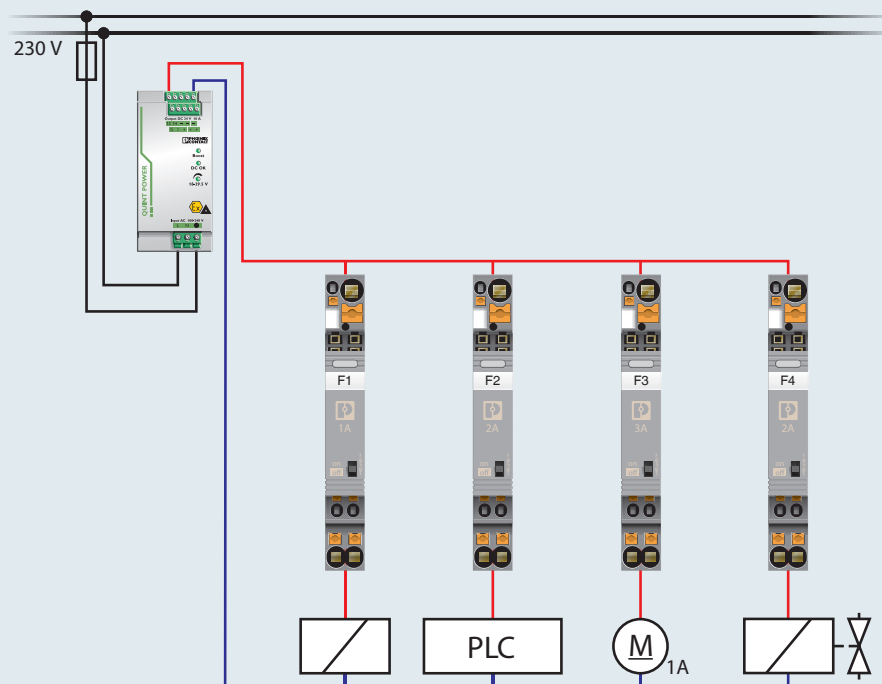


Illustration of application

Electronic device circuit breakers are ideal for protecting relays, programmable controllers, motors, sensors/actuators, and valves, for example.



Thermomagnetic device circuit breakers

Thermomagnetic device circuit breakers are used in information and communication technology as well as process technology. Thanks to the various tripping characteristics, the circuit breakers can be used in a wide range of applications. The reactivation and immediate remote signaling of the operating state ensure availability.

- Compact design with precise nominal current levels
- Modular extension possible thanks to the uniform, plug-in housing concept
- Sophisticated remote signaling concept enables monitoring from any location
- Maximum overcurrent protection over long cable paths thanks to SFB tripping characteristic
- Supply/remote signaling can be bridged with CLIPLINE complete accessories
- Protect 230/240 V AC control voltage with the aid of the M1 characteristic curve (based on characteristic C)
- Variable connection technology: either push-in or screw connection

Plug locking



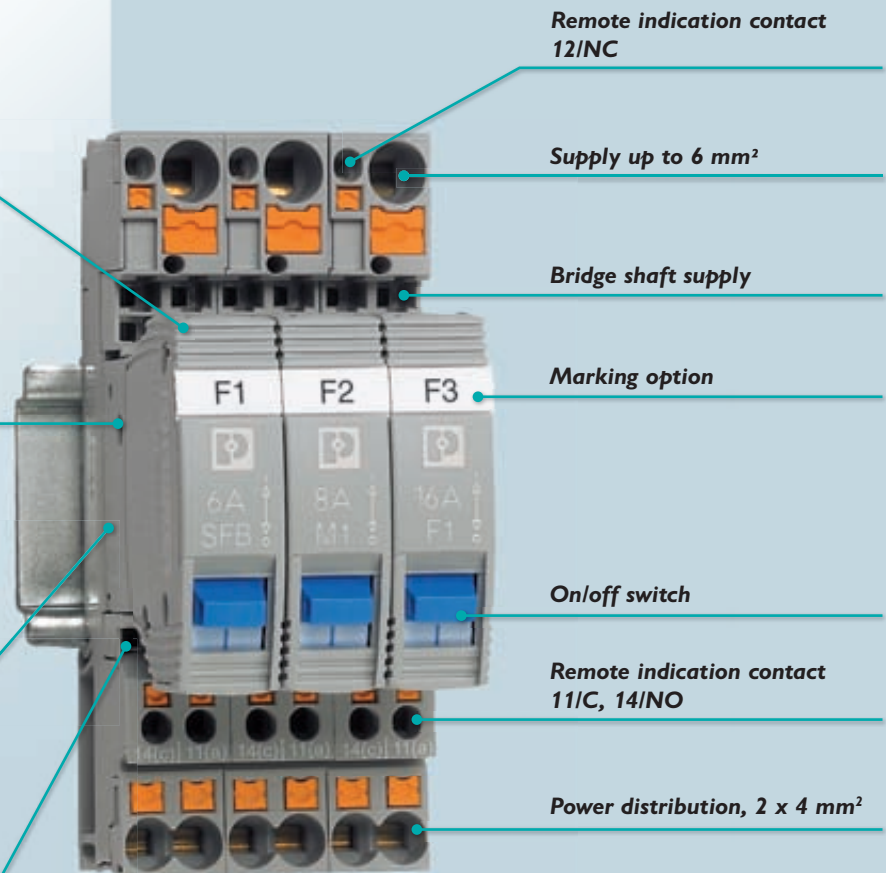
Two-piece/plug-in



Keying between plug and base element



Bridge shaft remote signaling



Tripping characteristics

With thermomagnetic device circuit breakers, the tripping time depends on the type of overload. In the event of an overload, the load is disconnected from the mains by means of time-delayed thermal

tripping. If there is a high overload current or even a short circuit, the magnetic tripping interrupts the circuit in a matter of milliseconds. Protective devices should be selected with the most suitable characteristic curve in

relation to the area of application, the load, and the protection requirements.

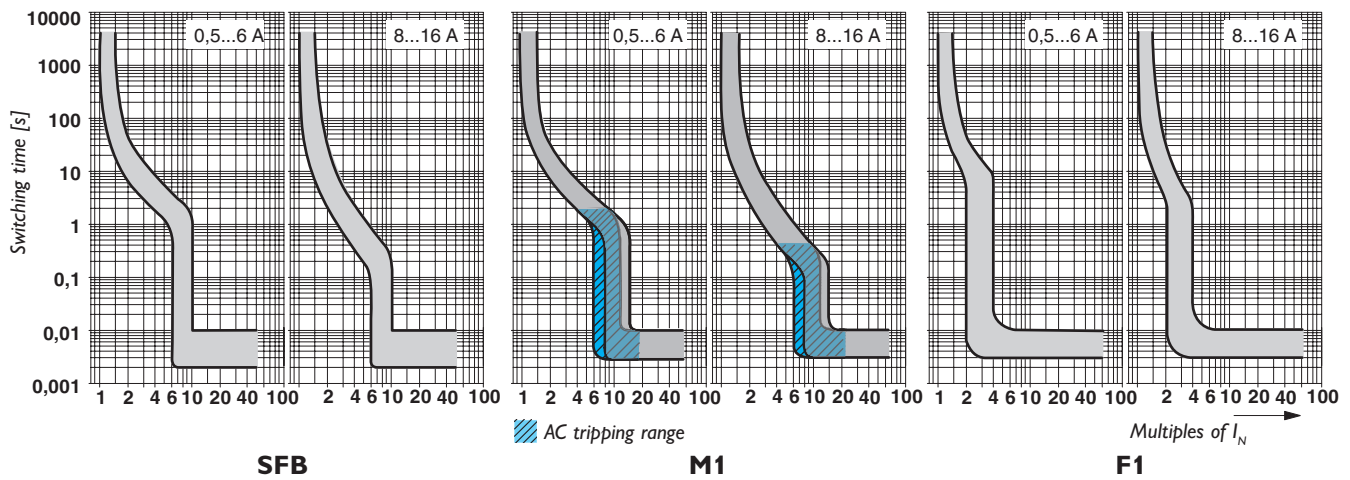
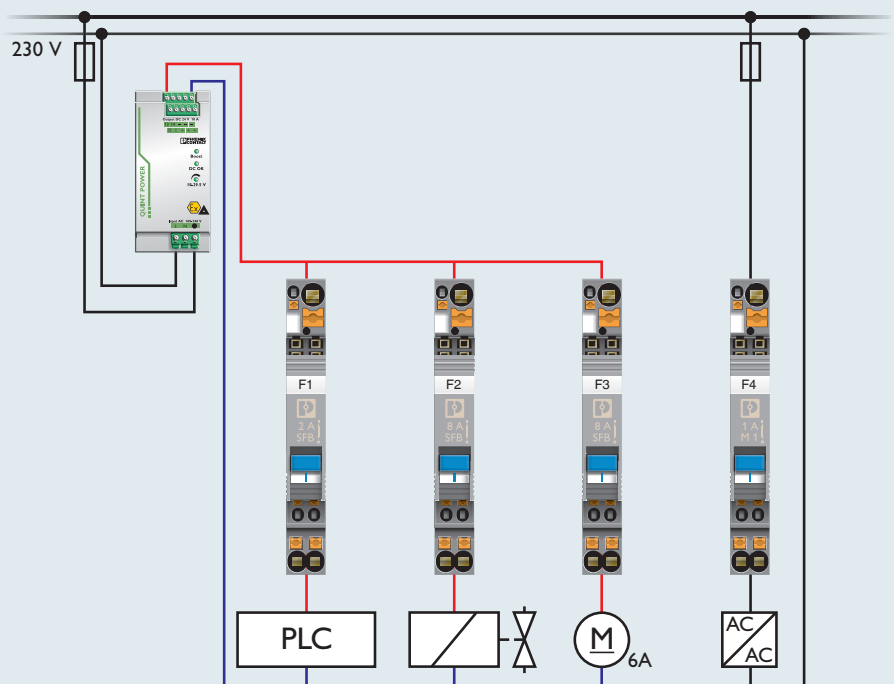


Illustration of application

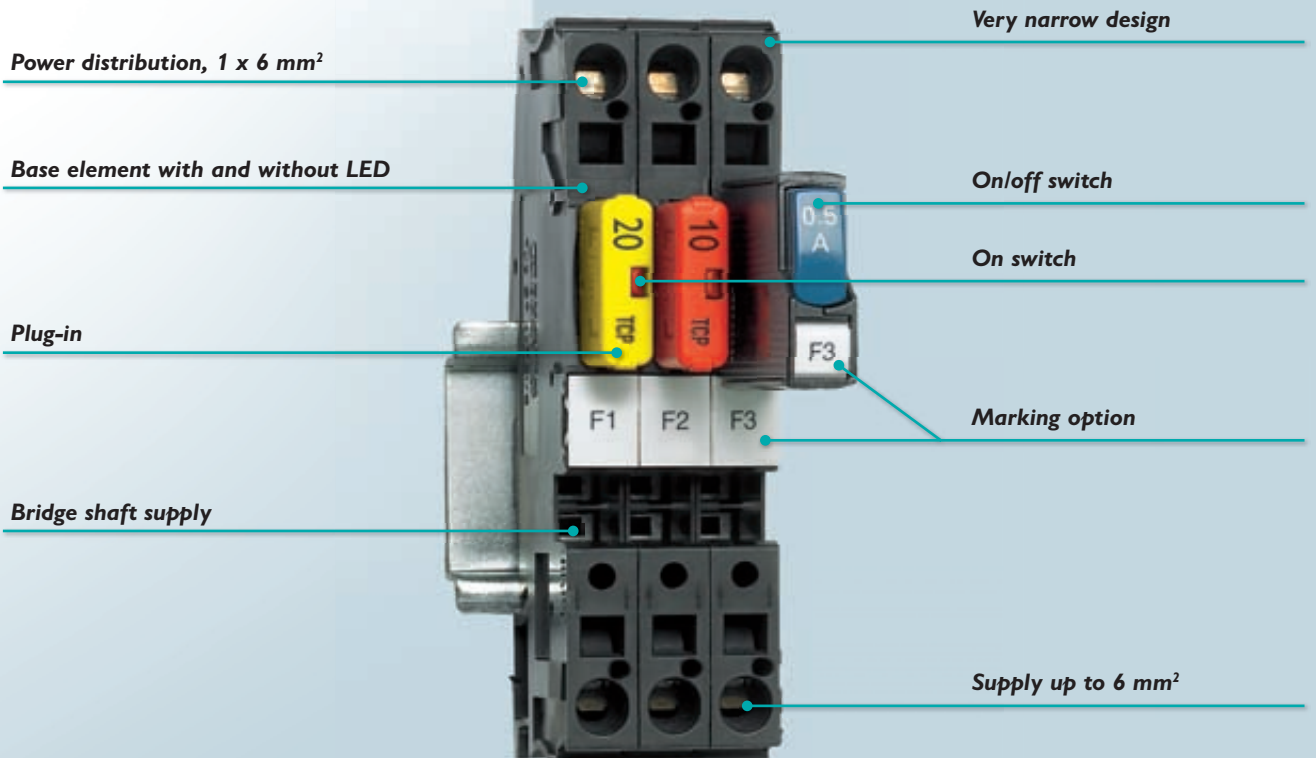
Thermomagnetic device circuit breakers are ideal for protecting programmable controllers, valves, motors, and frequency inverters, for example.



Thermal device circuit breakers

Thermal device circuit breakers provide optimum protection for inductive loads against overload in power distribution systems in control cabinet engineering and systems manufacturing. The integrated switching function enables the device to be switched on again immediately and therefore ensures the availability of the system.

- Compact design with precise nominal current levels
- Fits in all fuse holders designed for flat-type fuse inserts according to ISO 8820-3 (DIN 72581-3)
- Can be used to protect integrated circuits in all battery and onboard systems in the DC voltage range
- Supply can be bridged with CLIPLINE complete accessories
- Protect 230/240 V AC control voltage with the aid of the TCP... A characteristic curve



Tripping characteristics

The tripping time of the thermal device circuit breakers varies with the pending overload current. As can be seen in the characteristic curves, the circuit breaker trips more quickly as the overload increases. The protective function provided by a bimetal reacts

at a defined tripping temperature. With a relatively low overload current it therefore takes longer for the connected load to be disconnected from the mains.

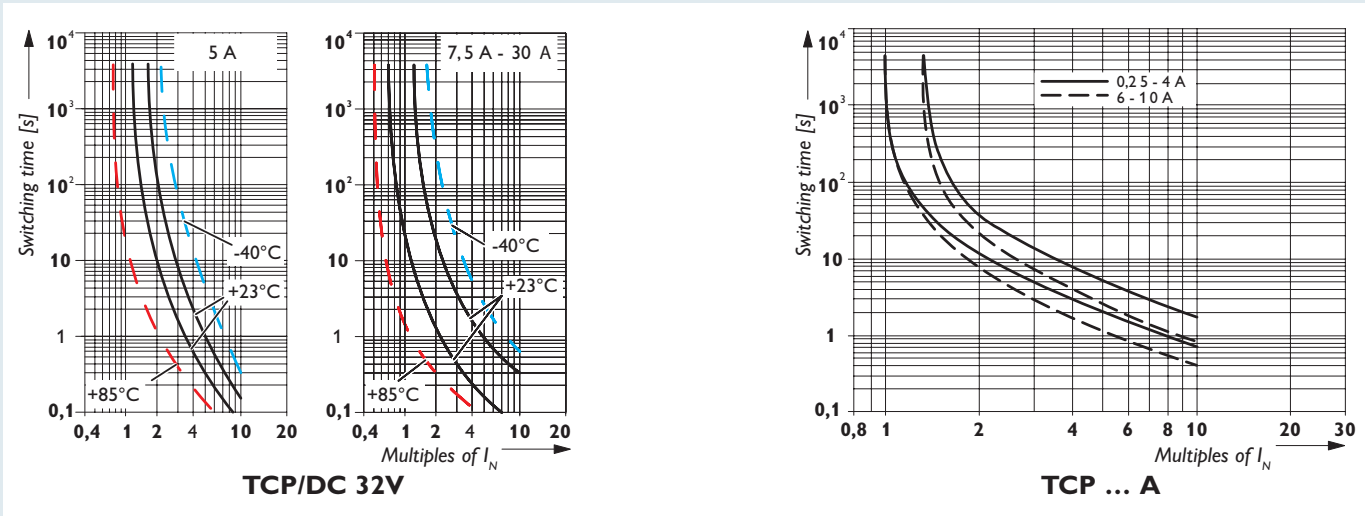
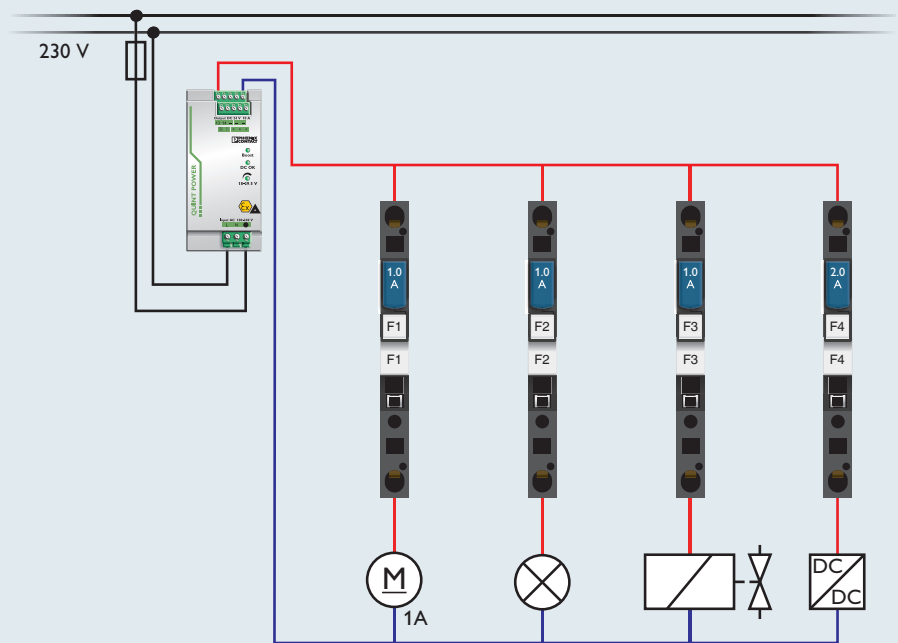


Illustration of application

Thermal device circuit breakers are ideal for protecting motors, lighting, solenoid valves, transformers, and onboard networks, for example.



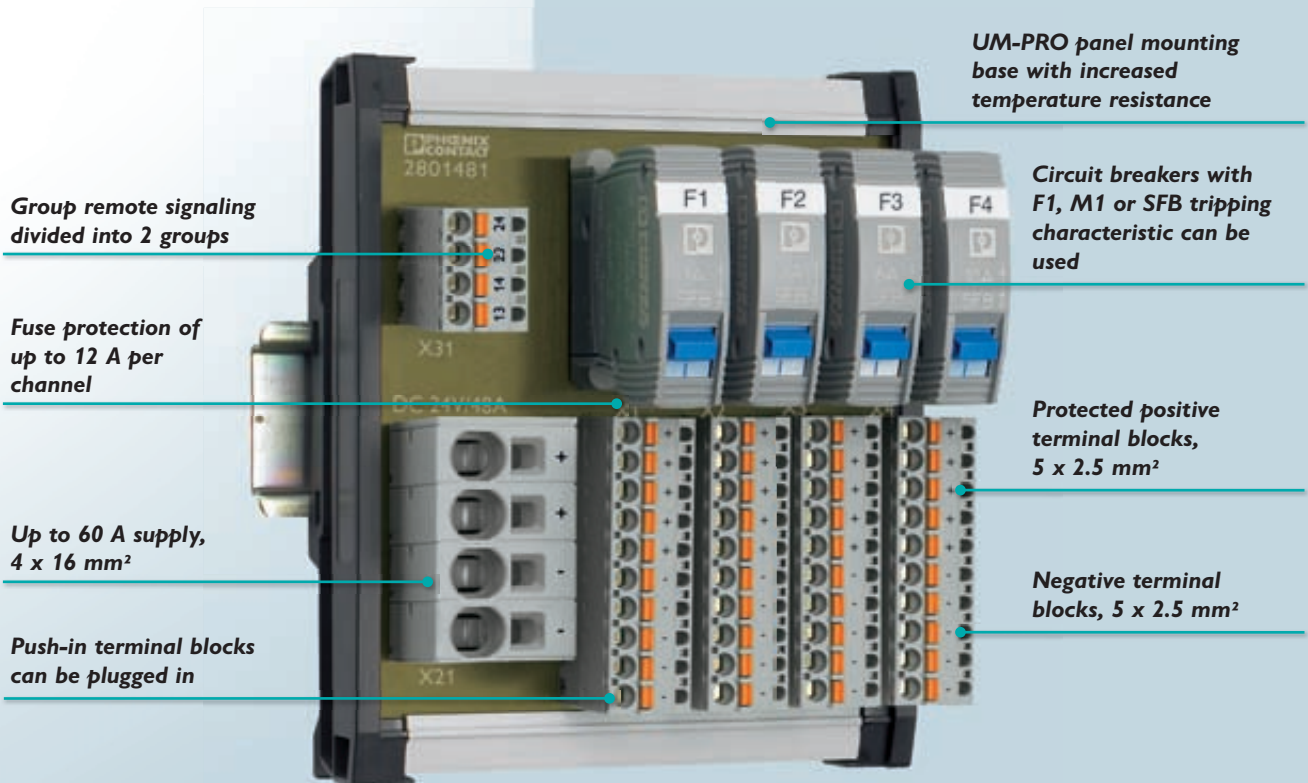
Device circuit breaker board

The multi-channel device circuit breaker boards are used, for example, in standard machine production or in control and process technology.

The central potential distribution reduces installation time to a minimum. The boards are very versatile as they can be fitted individually with thermomagnetic circuit breakers.

- Reduced installation time thanks to multi-channel device circuit breaker board (4/8/12-channel)
- Compact design saves up to 35% space
- Fuse protection of up to 12 A per channel provides optimum protection for the connected loads
- Up to five loads can be protected simultaneously with the additional terminal points
- Integrated group remote signaling ensures that you are always kept informed
- Supply of up to 60 A possible thanks to the high current carrying capacity of the board
- Maximum overcurrent protection over long cable paths thanks to device circuit breakers with SFB tripping characteristic

**Can't find the appropriate module?
No problem: we will work with you to develop
your own individual solution.**



High operational reliability thanks to redundant power supply

Ensure a high level of availability and productivity for your systems in control and process technology.

This can be achieved with a redundant switchgear structure. In this case, two 24 V DC power supply units are decoupled via a redundancy module thereby offering maximum system availability.

The doubled supply of the device circuit breaker board also offers the option of configuring redundant wiring.

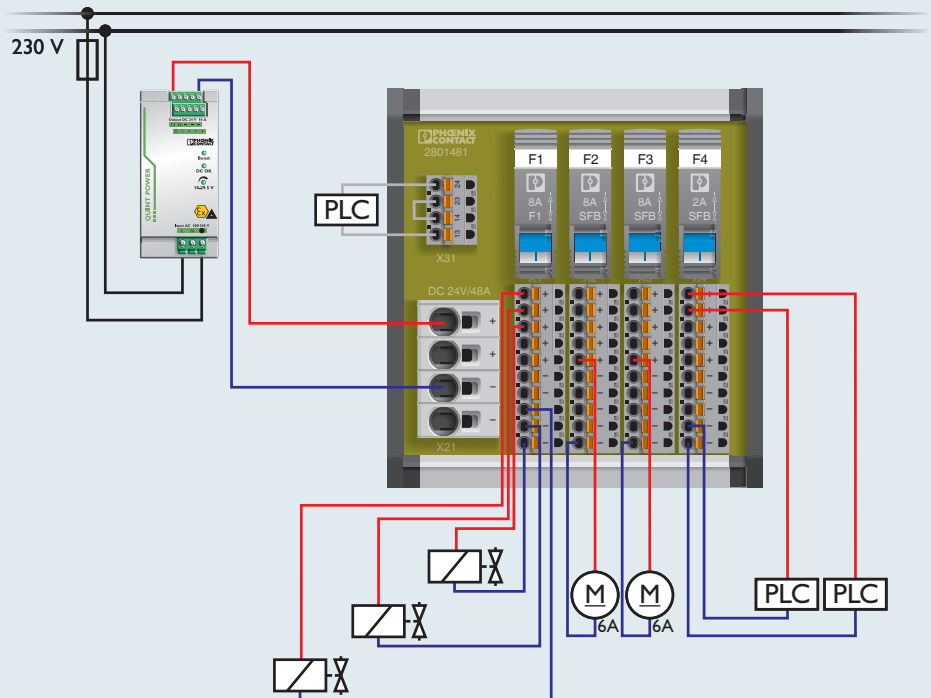


Illustration of application

The device circuit breaker boards offer connection options for up to five loads per protective path.


The boards therefore combine the advantages of the CB TM1... device circuit breaker series with easy and space-saving potential distribution.

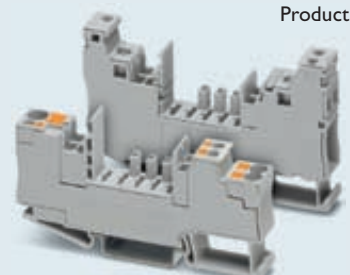
Group remote signaling is evaluated, for example, using a programmable controller.



Product overview


Electronic device circuit breakers

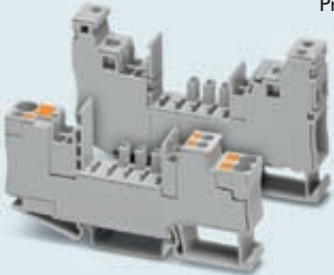
	Product designation	CB device circuit breakers				
	Fuse type	E electronic				
	Number of positions	1				
	Nominal voltage	24 DC				
	Version	NO N/O contact	NC N/C contact	S-R Status output and reset input	S-C Status output and control input	
	Nominal current	1 A	CB E1 24DC/1A NO P Order No. 2800901	CB E1 24DC/1A NC P Order No. 2800915	CB E1 24DC/1A S-R P Order No. 2800908	CB E1 24DC/1A S-C P Order No. 2800922
		2 A	CB E1 24DC/2A NO P Order No. 2800902	CB E1 24DC/2A NC P Order No. 2800916	CB E1 24DC/2A S-R P Order No. 2800909	CB E1 24DC/2A S-C P Order No. 2800923
3 A		CB E1 24DC/3A NO P Order No. 2800903	CB E1 24DC/3A NC P Order No. 2800917	CB E1 24DC/3A S-R P Order No. 2800910	CB E1 24DC/3A S-C P Order No. 2800924	
4 A		CB E1 24DC/4A NO P Order No. 2800904	CB E1 24DC/4A NC P Order No. 2800918	CB E1 24DC/4A S-R P Order No. 2800911	CB E1 24DC/4A S-C P Order No. 2800925	
6 A		CB E1 24DC/6A NO P Order No. 2800905	CB E1 24DC/6A NC P Order No. 2800919	CB E1 24DC/6A S-R P Order No. 2800912	CB E1 24DC/6A S-C P Order No. 2800926	
8 A		–	–	CB E1 24DC/8A S-R P Order No. 2800913	CB E1 24DC/8A S-C P Order No. 2800927	
10 A		–	–	CB E1 24DC/10A S-R P Order No. 2800914	CB E1 24DC/10A S-C P Order No. 2800928	


	Product designation	Base element
		<p>Screw connection technology CB 1/10-1/10 UT-BE Order No. 2801305</p> <p>Push-in connection technology CB 1/6-2/4 PT-BE Order No. 2800929</p> <p><i>Note: supply can be loaded with up to 41 A if two bridges are connected.</i></p>

	Product designation	CB accessories: bridge plug for the base element
		<p>CB PT bridge Order No. 2801306</p>

Thermomagnetic device circuit breakers, 1-pos.


	Product designation	CB device circuit breakers			
	Fuse type	TM thermomagnetic			
	Function	1 PDT			
	Number of positions	1			
	Characteristic curve	SFB	M1	F1	
	Nominal current	0.5 A	CB TM1 0.5A SFB P Order No. 2800835	CB TM1 0.5A M1 P Order No. 2800846	CB TM1 0.5A F1 P Order No. 2800857
		1 A	CB TM1 1A SFB P Order No. 2800836	CB TM1 1A M1 P Order No. 2800847	CB TM1 1A F1 P Order No. 2800858
		2 A	CB TM1 2A SFB P Order No. 2800837	CB TM1 2A M1 P Order No. 2800848	CB TM1 2A F1 P Order No. 2800859
		3 A	CB TM1 3A SFB P Order No. 2800838	CB TM1 3A M1 P Order No. 2800849	CB TM1 3A F1 P Order No. 2800860
		4 A	CB TM1 4A SFB P Order No. 2800839	CB TM1 4A M1 P Order No. 2800850	CB TM1 4A F1 P Order No. 2800861
5 A		CB TM1 5A SFB P Order No. 2800840	CB TM1 5A M1 P Order No. 2800851	CB TM1 5A F1 P Order No. 2800862	
6 A		CB TM1 6A SFB P Order No. 2800841	CB TM1 6A M1 P Order No. 2800852	CB TM1 6A F1 P Order No. 2800863	
8 A		CB TM1 8A SFB P Order No. 2800842	CB TM1 8A M1 P Order No. 2800853	CB TM1 8A F1 P Order No. 2800864	
10 A		CB TM1 10A SFB P Order No. 2800843	CB TM1 10A M1 P Order No. 2800854	CB TM1 10A F1 P Order No. 2800865	
12 A		CB TM1 12A SFB P Order No. 2800844	CB TM1 12A M1 P Order No. 2800855	CB TM1 12A F1 P Order No. 2800866	
16 A	CB TM1 16A SFB P Order No. 2800845	CB TM1 16A M1 P Order No. 2800856	CB TM1 16A F1 P Order No. 2800867		

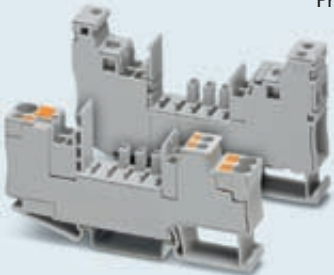
	Product designation	Base element	
		Screw connection technology	CB 1/10-1/10 UT-BE Order No. 2801305
		Push-in connection technology	CB 1/6-2/4 PT-BE Order No. 2800929
<p><i>Note: supply can be loaded with up to 41 A if two bridges are connected.</i></p>			


	Product designation	CB accessories: plug-in bridges for base element		
	Number of positions	2	FBS 2-6	Order No. 3030336
		3	FBS 3-6	Order No. 3030242
		4	FBS 4-6	Order No. 3030255
		5	FBS 5-6	Order No. 3030349
		10	FBS 10-6	Order No. 3030271
		20	FBS 20-6	Order No. 3030365
		50	FBS 50-6	Order No. 3032224

→ For more bridges and marking material, see main catalog or website


Thermomagnetic device circuit breakers, 2-pos.


	Product designation	CB device circuit breakers		
	Fuse type	TM thermomagnetic		
	Function	2 PDTs		
	Number of positions	2		
	Characteristic curve	SFB	M1	F1
Nominal current	0.5 A	CB TM2 0.5A SFB P Order No. 2800868	CB TM2 0.5A M1 P Order No. 2800879	CB TM2 0.5A F1 P Order No. 2800890
	1 A	CB TM2 1A SFB P Order No. 2800869	CB TM2 1A M1 P Order No. 2800880	CB TM2 1A F1 P Order No. 2800891
	2 A	CB TM2 2A SFB P Order No. 2800870	CB TM2 2A M1 P Order No. 2800881	CB TM2 2A F1 P Order No. 2800892
	3 A	CB TM2 3A SFB P Order No. 2800871	CB TM2 3A M1 P Order No. 2800882	CB TM2 3A F1 P Order No. 2800893
	4 A	CB TM2 4A SFB P Order No. 2800872	CB TM2 4A M1 P Order No. 2800883	CB TM2 4A F1 P Order No. 2800894
	5 A	CB TM2 5A SFB P Order No. 2800873	CB TM2 5A M1 P Order No. 2800884	CB TM2 5A F1 P Order No. 2800895
	6 A	CB TM2 6A SFB P Order No. 2800874	CB TM2 6A M1 P Order No. 2800885	CB TM2 6A F1 P Order No. 2800896
	8 A	CB TM2 8A SFB P Order No. 2800875	CB TM2 8A M1 P Order No. 2800886	CB TM2 8A F1 P Order No. 2800897
	10 A	CB TM2 10A SFB P Order No. 2800876	CB TM2 10A M1 P Order No. 2800887	CB TM2 10A F1 P Order No. 2800898
	12 A	CB TM2 12A SFB P Order No. 2800877	CB TM2 12A M1 P Order No. 2800888	CB TM2 12A F1 P Order No. 2800899
	16 A	CB TM2 16A SFB P Order No. 2800878	CB TM2 16A M1 P Order No. 2800889	CB TM2 16A F1 P Order No. 2800900



	Product designation	Base element	
		Screw connection technology	CB 1/10-1/10 UT-BE Order No. 2801305
		Push-in connection technology	CB 1/6-2/4 PT-BE Order No. 2800929
<p><i>Note: Two base elements are required per CB TM2... plug. Supply can be loaded with up to 41 A if two bridges are connected.</i></p>			

	Product designation	Plug-in bridge accessories: front cutting tool	
			CUTFOX-FBS Order No. 1212124

Thermal circuit breakers

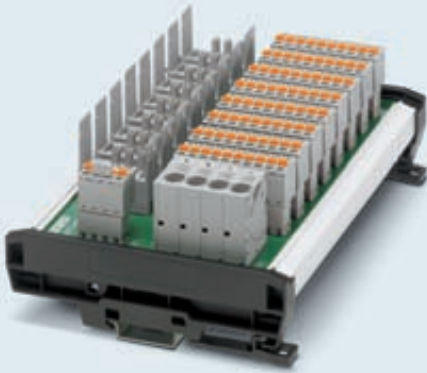
	Product designation	Thermal circuit breakers			
	Number of positions	1			
	Characteristic curve	T1			
	Function	Can be switched on and off			
	Nominal current	0.1 A	TCP 0,1A	Order No. 0712107	
		0.25 A	TCP 0,25A	Order No. 0712123	
		0.5 A	TCP 0,5A	Order No. 0712152	
		1 A	TCP 1A	Order No. 0712194	
		2 A	TCP 2A	Order No. 0712217	
		3 A	TCP 3A	Order No. 0712233	
4 A		TCP 4A	Order No. 0712259		
6 A		TCP 6A	Order No. 0712275		
8 A		TCP 8A	Order No. 0712291		
10 A	TCP 10A	Order No. 0712314			

	Product designation	Thermal circuit breakers			
	Number of positions	1			
	Characteristic curve	T1			
	Function	Reclosable			
	Nominal current	5 A	TCP 5/DC32V	Order No. 0700005	
		7.5 A	TCP 7,5/DC32V	Order No. 0700007	
		10 A	TCP 10/DC32V	Order No. 0700010	
		15 A	TCP 15/DC32V	Order No. 0700015	
		20 A	TCP 20/DC32V	Order No. 0700020	
		25 A	TCP 25/DC32V	Order No. 0700025	
30 A		TCP 30/DC32V	Order No. 0700030		
40 A		TCP 40/DC32V	Order No. 0700040		

	Product designation	Flat-type fuse terminal block		
	Function	Without LED	With LED, 12 V LED	With LED, 24 V LED
		ST 4-FSI/C Order No. 3036372	ST 4-FSI/C-LED 12 Order No. 3036495	ST 4-FSI/C-LED 24 Order No. 3036505
	UK 6-FSI/C Order No. 3118203	UK 6-FSI/C-LED12 Order No. 3001925	UK 6-FSI/C-LED24 Order No. 3001938	

Device circuit breaker board

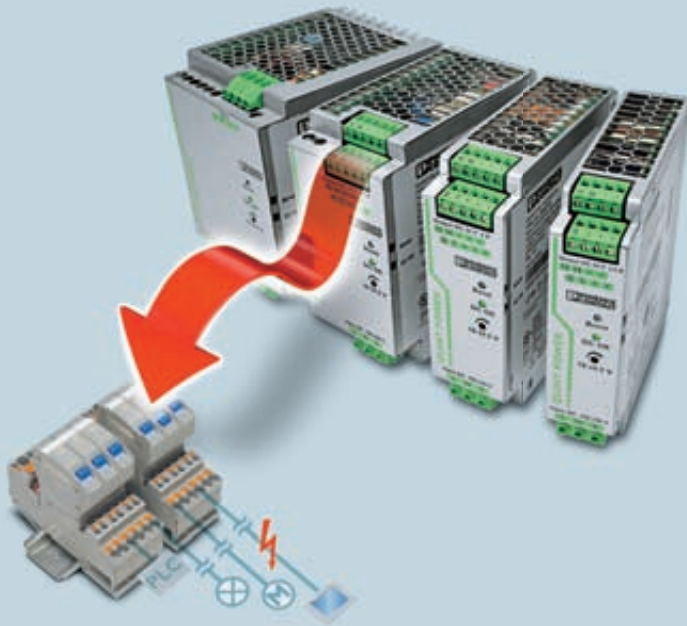
Product designation	CBB device circuit breaker board		
	4	8	12
Channels	2 x 2	2 x 4	2 x 6
Group remote signaling	2 x 2	2 x 4	2 x 6
Max. supply current	48 A	60 A	60 A
	CBB TM 04 2x2RC P-PT Order No. 2801481	CBB TM 08 2x4RC P-PT Order No. 2801482	CBB TM 12 2x6RC P-PT Order No. 2801483



You can select the right CB TM1... device circuit breakers according to the application.

Configuration matrix

CB device circuit breakers



The configuration matrix can help with the secondary side planning of your power supply unit. It describes the maximum cable lengths depending on:

- The device circuit breaker
- The conductor cross section
- The performance class of the power supply unit

Additional support is available from our online configurator.

Cable lengths

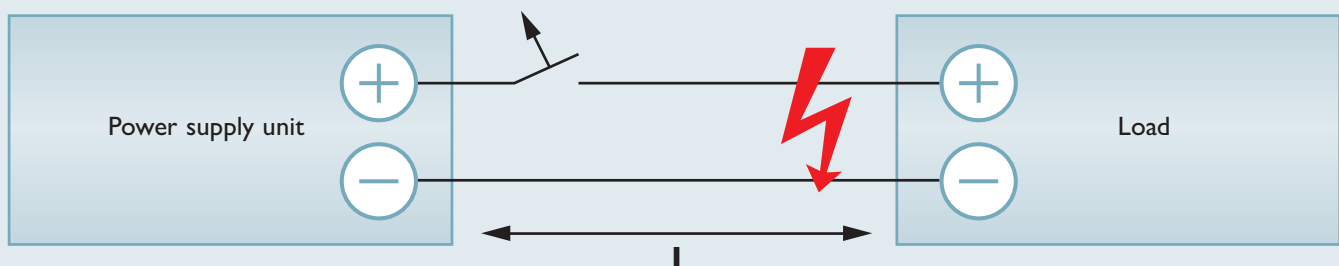
The values specified relate to the distance (l) from the power supply unit to the load.

Boundary parameters for the calculation:

- CB TM1 xA SFB P device circuit breaker
- Electromagnetic tripping at the latest at:
 - 10 times the rated current
 - Ambient temperature: +20°C

The internal resistance of the device circuit breakers is taken into account.

In addition to the short-circuit current, the relevant power supply unit also supplies half the nominal current for paths connected in parallel.



[Conductor cross section] mm ²	0.75	1	1.5	2.5	4
	Distance in m				
24 V/5 A					
CB TM1 1A SFB P	27	36	54	91	
CB TM1 2A SFB P	10	13	20	34	
24 V/10 A					
CB TM1 1A SFB P	27	36	54	91	
CB TM1 2A SFB P	18	25	37	63	
CB TM1 3A SFB P	11	15	22	38	
CB TM1 4A SFB P	6	8	13	22	
CB TM1 5A SFB P	4	5	8	14	
24 V/20 A					
CB TM1 1A SFB P	27	36	54	91	130
CB TM1 2A SFB P	18	25	37	63	100
CB TM1 3A SFB P	13	18	27	46	73
CB TM1 4A SFB P	10	14	21	35	57
CB TM1 5A SFB P	8	11	17	29	46
CB TM1 6A SFB P	6	8	12	20	32
CB TM1 8A SFB P		5	7	12	20
CB TM1 10A SFB P		3	4	8	13
24 V/40 A					
CB TM1 1A SFB P	27	36	54	91	130
CB TM1 2A SFB P	18	25	37	63	100
CB TM1 3A SFB P	13	18	27	46	73
CB TM1 4A SFB P	10	14	21	35	57
CB TM1 5A SFB P	8	11	17	29	46
CB TM1 6A SFB P	7	9	14	24	39
CB TM1 8A SFB P		7	11	19	31
CB TM1 10A SFB P		5	7	12	20
CB TM1 12A SFB P			5	9	14
CB TM1 16A SFB P			3	5	8
48 V/5 A					
CB TM1 1A SFB P	77	100	140	220	
CB TM1 2A SFB P	27	36	54	91	
48 V/10 A					
CB TM1 1A SFB P	77	100	140	250	380
CB TM1 2A SFB P	44	58	88	140	200
CB TM1 3A SFB P	25	34	51	86	110
CB TM1 4A SFB P	14	19	29	49	79
CB TM1 5A SFB P	9	12	19	32	51

[Conductor cross section] mm ²	0.75	1	1.5	2.5	4
	Distance in m				
24 V/5 A					
CB TM1 1A F1 P	103	137	206	344	
CB TM1 2A F1 P	56	75	113	189	
24 V/10 A					
CB TM1 1A F1 P	103	137	206	344	
CB TM1 2A F1 P	56	75	113	189	
CB TM1 3A F1 P	39	52	78	130	
CB TM1 4A F1 P	29	39	59	99	
CB TM1 5A F1 P	24	32	48	80	
24 V/20 A					
CB TM1 1A F1 P	103	137	206	344	550
CB TM1 2A F1 P	56	75	113	189	303
CB TM1 3A F1 P	39	52	78	130	208
CB TM1 4A F1 P	29	39	59	99	158
CB TM1 5A F1 P	24	32	48	80	128
CB TM1 6A F1 P	20	26	40	66	106
CB TM1 8A F1 P	15	20	30	51	82
CB TM1 10A F1 P	12	16	24	41	65
24 V/40 A					
CB TM1 1A F1 P	103	137	206	344	550
CB TM1 2A F1 P	56	75	113	189	303
CB TM1 3A F1 P	39	52	78	130	208
CB TM1 4A F1 P	29	39	59	99	158
CB TM1 5A F1 P	24	32	48	80	128
CB TM1 6A F1 P	20	26	40	66	106
CB TM1 8A F1 P	15	20	30	51	82
CB TM1 10A F1 P	12	16	24	41	6
CB TM1 12A F1 P	10	13	20	34	54
CB TM1 16A F1 P	7	10	15	25	41
48 V/5 A					
CB TM1 1A F1 P	229	306	459	765	
CB TM1 2A F1 P	120	160	240	400	
48 V/10 A					
CB TM1 1A F1 P	229	306	459	765	1224
CB TM1 2A F1 P	120	160	240	400	640
CB TM1 3A F1 P	81	108	162	271	433
CB TM1 4A F1 P	61	81	122	204	326
CB TM1 5A F1 P	49	65	98	164	262

QUINT POWER – power supply units for maximum system availability

Benefit from the functional advantages of the QUINT POWER power supply units. The unique SFB technology and preventive function monitoring increase the availability of your application.



All features at a glance

Fast tripping of device circuit breakers

Dynamic SFB technology power reserve with up to six times the nominal current for 12 ms

Reliable starting of difficult loads

POWER BOOST static power reserve with up to 1.5 times the nominal current permanently

Preventive function monitoring

Indicates critical operating states before errors occur, thanks to permanent monitoring of the output voltage and output current and remote monitoring using active switching output and floating relay contact

Worldwide use

Thanks to the wide range input and international approval package

High operational reliability

Thanks to high MTBF > 500,000 h, long mains buffering times > 20 ms, high dielectric strength of single-phase devices of up to 300 V AC

Can be connected in parallel

For increased performance and redundancy

Three-phase devices

Error-free operation, even in the event of a permanent phase failure, high surge resistance of up to 6 kV thanks to the integrated gas-filled surge arrester

Compensation of voltage drops

Output voltage can be set on the front. A voltage range of 5 ... 56 V DC can be covered with three power supply units with output voltages of 12, 24, and 48 V DC.

Easy-maintenance connection technology

Keyed COMBICON plug-in connectors (up to and including 240 A)

Robust design

Metal housing and wide temperature range from -25°C to +70°C

Minimize installation costs

Third negative terminal block used as a grounding terminal block

	Input voltage range	Output current / POWER BOOST / SFB	Magnetic fuse tripping up to	Setting range of the output voltage	Dimensions W x H x D
QUINT POWER 1~					
QUINT-PS/1AC/24DC/3.5 Order No. 2866747	85 V AC ... 264 V AC 90 V DC ... 350 V DC	3.5 A / 4 A / 15 A	B2	18 V DC ... 29.5 V DC	32 x 130 x 125
QUINT-PS/1AC/24DC/5 Order No. 2866750	85 V AC ... 264 V AC 90 V DC ... 350 V DC	5 A / 7.5 A / 30 A	B2, B4, C2	18 V DC ... 29.5 V DC	40 x 130 x 125
QUINT-PS/1AC/24DC/10 Order No. 2866763	85 V AC ... 264 V AC 90 V DC ... 350 V DC	10 A / 15 A / 60 A	B2, B4, B6, C2, C4	18 V DC ... 29.5 V DC	60 x 130 x 125
QUINT-PS/1AC/24DC/20 Order No. 2866776	85 V AC ... 264 V AC 90 V DC ... 350 V DC	20 A / 26 A / 120 A	B2, B4, B6, B10, B16, C2, C4, C6	18 V DC ... 29.5 V DC	90 x 130 x 125
QUINT-PS/1AC/24DC/40 Order No. 2866789	85 V AC ... 264 V AC 90 V DC ... 350 V DC	40 A / 45 A / 215 A	B2, B4, B6, B10, B16, B25, C2, C4, C6, C13	18 V DC ... 29.5 V DC	180 x 130 x 125
QUINT-PS/1AC/12DC/15 Order No. 2866718	85 V AC ... 264 V AC 90 V DC ... 350 V DC	15 A / 16 A / 60 A	B2, B4, B6, C2, C4	5 V DC ... 18 V DC	60 x 130 x 125
QUINT-PS/1AC/12DC/20 Order No. 2866721	85 V AC ... 264 V AC 90 V DC ... 350 V DC	20 A / 26 A / 120 A	B2, B4, B6, B10, C2, C4, C6	5 V DC ... 18 V DC	90 x 130 x 125
QUINT-PS/1AC/48DC/5 Order No. 2866679	85 V AC ... 264 V AC 90 V DC ... 350 V DC	5 A / 7.5 A / 30 A	B2, B4, C2	30 V DC ... 56 V DC	60 x 130 x 125
QUINT-PS/1AC/48DC/10 Order No. 2866682	85 V AC ... 264 V AC 90 V DC ... 350 V DC	10 A / 13 A / 60 A	B2, B4, B6, C2, C4	30 V DC ... 56 V DC	90 x 130 x 125
QUINT-PS/1AC/48DC/20 Order No. 2866695	85 V AC ... 264 V AC 90 V DC ... 350 V DC	20 A / 22.5 A / 100 A	B2, B4, B6, B10, C2, C4, C6	30 V DC ... 56 V DC	180 x 130 x 125
QUINT POWER 3~					
QUINT-PS/3AC/24DC/5 Order No. 2866734	320 V AC ... 575 V AC 450 V DC ... 800 V DC	5 A / 7.5 A / 30 A	B2, B4, C2	18 V DC ... 29.5 V DC	40 x 130 x 125
QUINT-PS/3AC/24DC/10 Order No. 2866705	320 V AC ... 575 V AC 450 V DC ... 800 V DC	10 A / 15 A / 60 A	B2, B4, B6, C2, C4	18 V DC ... 29.5 V DC	60 x 130 x 125
QUINT-PS/3AC/24DC/20 Order No. 2866792	320 V AC ... 575 V AC 450 V DC ... 800 V DC	20 A / 26 A / 120 A	B2, B4, B6, B10, B16, C2, C4, C6	18 V DC ... 29.5 V DC	69 x 130 x 125
QUINT-PS/3AC/24DC/40 Order No. 2866802	320 V AC ... 575 V AC 450 V DC ... 800 V DC	40 A / 45 A / 215 A	B2, B4, B6, B10, B16, B25, C2, C4, C6, C13	18 V DC ... 29.5 V DC	96 x 130 x 176
QUINT-PS/3AC/48DC/20 Order No. 2320827	320 V AC ... 575 V AC 450 V DC ... 800 V DC	20 A / 22.5 A / 100 A	B2, B4, B6, B10, C2, C4, C6	30 V DC ... 56 V DC	96 x 130 x 176
QUINT POWER CO, dip-coated for 100% humidity					
QUINT-PS/1AC/24DC/5/CO Order No. 2320908	85 V AC ... 264 V AC 90 V DC ... 350 V DC	5 A / 7.5 A / 30 A	B2, B4, C2	18 V DC ... 29.5 V DC	40 x 130 x 125
QUINT-PS/1AC/24DC/10/CO Order No. 2320911	85 V AC ... 264 V AC 90 V DC ... 350 V DC	10 A / 15 A / 60 A	B2, B4, B6, C2, C4	18 V DC ... 29.5 V DC	60 x 130 x 125
QUINT-PS/1AC/24DC/20/CO Order No. 2320898	85 V AC ... 264 V AC 90 V DC ... 350 V DC	20 A / 26 A / 120 A	B2, B4, B6, B10, B16, C2, C4, C6	18 V DC ... 29.5 V DC	90 x 130 x 125
QUINT-PS/3AC/24DC/20/CO Order No. 2320924	320 V AC ... 575 V AC 450 V DC ... 800 V DC	20 A / 26 A / 120 A	B2, B4, B6, B10, B16, C2, C4, C6	18 V DC ... 29.5 V DC	69 x 130 x 125
DC/DC converters					
QUINT-PS/24DC/24DC/5 Order No. 2320034	18 V DC ... 32 V DC	5 A / 6.25 A / 30 A	C2	18 V DC ... 29.5 V DC	32 x 130 x 125
QUINT-PS/24DC/24DC/10 Order No. 2320092	18 V DC ... 32 V DC	10 A / 12.5 A / 60 A	B6, C4	18 V DC ... 29.5 V DC	48 x 130 x 125
QUINT-PS 24DC/24DC/20 Order No. 2320102	18 V DC ... 32 V DC	20 A / 25 A / 120 A	B16, C6	18 V DC ... 29.5 V DC	82 x 130 x 125
QUINT-PS/24DC/12DC/8 Order No. 2320115	18 V DC ... 32 V DC	8 A / 10 A / 48 A	–	5 V DC ... 18 V DC	32 x 130 x 125
QUINT-PS/24DC/48DC/5 Order No. 2320128	18 V DC ... 32 V DC	5 A / 6.25 A / 30 A	C2	30 V DC ... 56 V DC	48 x 130 x 125
QUINT-PS/12DC/24DC/5 Order No. 2320131	9 V DC ... 18 V DC	5 A / 6.25 A / 30 A	C2	18 V DC ... 29.5 V DC	32 x 130 x 125
QUINT-PS/48DC/24DC/5 Order No. 2320144	30 ... 60 V DC	5 A / 6.25 A / 30 A	C2	18 V DC ... 29.5 V DC	32 x 130 x 125



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