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Multi-channel, electronic device circuit breaker with active current limitation for protecting eight loads at 24 V DC in the event of overload and short circuit. With nominal current assistant and electronic locking of the set nominal currents. For installation on DIN rails.

Your advantages

- For protection against voltage dips caused by overload and short circuit
- ☑ Precise nominal current levels of 0.5 to 10 A
- ☑ Integrated dynamic current limitation
- ☑ Electronic locking mechanism to increase system safety
- ☑ Early warning when exceeding 80% of the set nominal current per channel
- ✓ Supply up to 80 A possible
- Sophisticated remote signaling concept enables monitoring from any location
- Slim design



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 992367
GTIN	4046356992367

Technical data

Dimensions

Height	130 mm
Width	41 mm
Depth	121 mm

Ambient conditions

Ambient temperature (operation)	-25 °C 70 °C (Startup at -40 C type-tested)
	-25 °C 65 °C (for UL 2367)
Ambient temperature (storage/transport)	-40 °C 80 °C



Technical data

Ambient conditions

Humidity test	240 h, 95 % RH, 40 °C
Altitude	≤ 6000 m (amsl (above mean sea level))
Shock (operation)	30g (IEC 60068-2-27, Test Ea)
Vibration (operation)	5 Hz 24.9 Hz (Amplitude ±1.6 mm; in accordance with IEC 60068-2-6, Test Fc)
	24.9 Hz 150 Hz (Acceleration 4g; in accordance with IEC 60068-2-6, Test Fc with additional resonance frequency testing in accordance with DNV GL)
Degree of protection	IP20

General

Flammability rating according to UL 94	V-0
Mounting type	DIN rail: 35 mm
Color	light grey RAL 7035
Number of positions	8
Protection class	III
Туре	DIN rail module, one-piece

Electrical data

electronic
0.5 kV
18 V DC 30 V DC
24 V DC
max. 80 A DC (for double supply IN+ with at least 2 x 6 mm²)
max. 70 A DC (for UL 2367)
0.5 / 1 / 2 / 4 / 6 / 10 A DC (adjustable per output channel)
typ. 40 % (0.5 A 1 A)
typ. 10 % (2 - 10 A)
max. 35 V DC
15 A DC (per output channel)
typ. 2.0 x I _N (0.5 - 1 A)
typ. 1.5 x I _N (2 - 10 A)
> 99 %
typ. 50 mA
1.2 W (No-load operation)
17.2 W (Nominal operation)
3.3 s
10 s (at overload / short circuit)
40 A DC (at 70°C (65°C for UL 2367))
50 A DC (at 60 °C)
60 A DC (at 50 °C)



Technical data

Electrical data

	70 A DC (at 40 °C)
	80 A DC (at 40 °C)
	70 A DC (at 40°C for UL 2367)
Tripping method	E (electronic)
Required backup fuse	not required, integrated failsafe element
Dielectric strength	max. 30 V DC (Load circuit)
MTBF (IEC 61709, SN 29500)	1304293 h (at 25 °C)
	858501 h (at 40 °C)
	440048 h (at 60 °C)
Shutdown time load circuit	0.02 s (> 1.3 x I _N)
	30 s (1.1 1.3 x I _N)
Undervoltage shutdown load circuit	≤ 17.8 V DC (active)
	≥ 19 V DC (inactive)
Surge voltage shutdown load circuit	≥ 30.5 V DC (active)
	≤ 29.5 V DC (inactive)
Max. capacitive load load circuit	75000 μF (per channel at 24 V DC)
Output voltage status output	24 V DC
Output current status output	max. 20 mA (when I > 80% at at least one channel)
Input voltage reset input	7 V DC 30 V DC (Reset with falling edge)
Current consumption reset input	typ. 0.4 mA (at 24 V DC)

Remote indication contact

Connection name	Remote indication circuit
Switching function	N/O contact
Stripping length	10 mm
Conductor cross section solid	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	1.5 mm² 0.25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
DC operating voltage	0 V DC 30 V DC
DC operating current	1 mA DC 100 mA DC

Signaling

Channel LED off	off (Channel switched off)
Channel LED green	lit (Channel switched on)
	flashing (Channel switched on, programming mode active)
Channel LED yellow	lit (Channel switched on, channel load > 80%)
Channel LED yellow-green	flashing (Channel switched on, nominal current assistant active)
Channel LED red	lit (Channel switched off, over- or undervoltage active)
	ON temporarily (Channel switched off, 10 s cool-down phase, overload or short-circuit release)



Technical data

Signaling

	flashing (Channel switched off, ready to be switched back on, overload or short-circuit release)
Channel LED red-yellow	flashing (Channel switched on, overload mode, capacity approximately 110 130%, shutdown after 30 s)
Channel LED red-green	flashing (Channel switched off, programming mode active, current adjustment after overload or short-circuit release)
DC OK LED off	off (No supply voltage)
DC OK LED green	lit (Operating voltage in nominal range 18 30 V)
DC OK LED yellow	lit (Undervoltage active, voltage \leq 17.8 V, active channels switched off and channel LEDs are lit red)
	flashing (Undervoltage shutdown inactive, device was in undervoltage shutdown)
DC OK LED red	lit (Overvoltage shutdown active, voltage \geq 30.5 V, channels switched off and channel LEDs are lit red)
	flashing (Overvoltage shutdown inactive, device was in overvoltage shutdown)

Connection data

Connection name	Main circuit IN+
Connection method	Push-in connection
Stripping length	18 mm
Conductor cross section solid	0.75 mm² 16 mm²
Conductor cross section AWG	20 4
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.75 mm² 10 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.75 mm² 16 mm²
Connection name	Main circuit IN-
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
Connection name	Main circuit OUT
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²

Standards and Regulations

Standards/specifications	EN 61000-6-2
	EN 61000-6-3



Technical data

Standards and Regulations

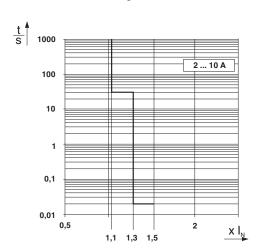
EN 60068-2-6
EN 60068-2-11
EN 60068-2-78

Environmental Product Compliance

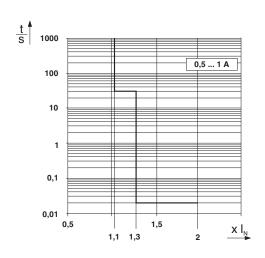
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings





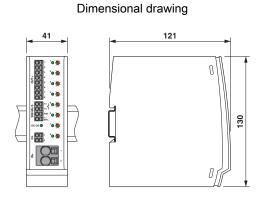
Diagram



Trigger characteristic in the DC range

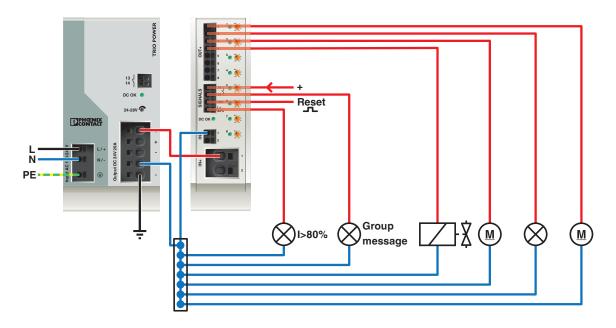
Trigger characteristic in the DC range







Application drawing



Approvals

Approvals



Approvals

Approvals			
DNV GL / UL Listed / UL Reco	gnized / cUL Listed	d / EAC / cULus Listed	
Ex Approvals			
UL Recognized / UL Listed / cl	JL Listed / cULus L	isted	
Approval details			
DNV GL		http://exchange.dnv.com/tari/	TAA00000U2
UL Listed	UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
UL Recognized	SU	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 317172
cUL Listed	CUL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
EAC	EAC		RU C- DE.A*30.B01561
cULus Listed	C UL US		



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