

1110984

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2-channel electronic circuit breaker module for protecting loads at 12 and 24 V DC against overload and short circuit with current limit. Nominal current adjustable from 2 A to 10 A using step switch. For DIN rail installation via the CAPAROC current rails.

Your advantages

- The benchmark that you can customize with convenient nominal current level setting on the module
- · Easy operation for everyone through tool-free assembly, uninterrupted installation, and transparent operating state
- · Exceptionally easy design-in allows the nominal current to be extended beyond the specified levels via PROFINET

Commercial data

Item number	1110984
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL11
Product key	CLA233
GTIN	4063151028831
Weight per piece (including packing)	94 g
Weight per piece (excluding packing)	94 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

Notes

General

Note	LABS release – in accordance with test specification VW PV 3. 10.7:2005-0
	When connecting the conductor, make sure that the CAPAROC modules are not pulled apart due to tensile force. Gaps must not be created between the modules.

Product properties

Product type	Device circuit breakers
Product family	CAPAROC
Туре	Plug-in module
Number of positions	1
No. of channels	2
Number of slots	2
Insulation characteristics	
Protection class	III

2

Electrical properties

Pollution degree

General

Operating voltage	10 V DC 30 V DC
Rated voltage	12 V DC
	24 V DC
Rated current I _N	10 A DC (per channel)
Rated current I _N	2 / 4 / 6 / 8 / 10 A DC (Adjustable via rotary coding switches)
	1/2/3/4/5/6/7/8/9/10 A DC (can be set, in RC mode via power module with communication interface)
Rated current (pre-adjusted)	2 A
Rated surge voltage	0.5 kV
Tripping method	E (electronic)
Feedback resistance	max. 35 V DC
Switch-on delay	50 ms (each channel preset by default)
	can be adapted with CAPAROC PM IOL and CAPAROC PM PN power modules
Required backup fuse	Only required if I _{max} of the power supply > the short-circuit switching capacity. Integrated failsafe element.
Short-circuit switching capacity	300 A
Dielectric strength	35 V DC (Load circuit)
Active current limitation	typ. 2.0 x I_N at $I_N \le 3$ A
	typ. 1.5 x I _{N at} I _N ≥ 4 A
Fuse	electronic



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Efficiency	> 99 %
Closed circuit current I ₀	typ. 25 mA (no load at 24 V)
Power dissipation	typ. 0.6 W (no load at 24 V)
	< 3.3 W (in nominal operation at 24 V and 10 A)
Measuring tolerance I	± 10 % (typ.)
Temperature derating	20 A (Total current at 40°C)
	10 A (Total current at 65 °C)
MTBF (IEC 61709, SN 29500)	11140621 h (at 25 °C with 21 % load)
	4699883 h (at 40°C with 34.25% load)
	534110 h (at 40°C with 100% load)
Voltage drop	0.14 V (at 10 A)
Fail-safe element	15 A DC (per output channel)
Contact switching type	without electrical isolation
pad circuit	
Shutdown time	5 s (for overload 1.11.3 x I_N at $I_N \ge 4$ A)
	5 s (for overload 1.11.7 x I _N at I _N < 4 A)
	typ. 400 ms (max. 450 ms for high starting currents)
	typ. 20 ms (for short circuit > 1,5 x I_N)
Undervoltage switch-off	≤ 8.5 V DC (active)
	≥ 9.2 V DC (inactive)
Overvoltage switch-off	≥ 32.5 V DC (active)
	≤ 30.5 V DC (inactive)
Max. capacitive load	≤ 75000 µF (Depending on the current setting and the short-

Connection data

Fuse-protected output

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross-section flexible	0.2 mm ² 4 mm ²
Conductor cross-section rigid	0.2 mm² 4 mm²
Conductor cross-section AWG	24 12
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 4 mm²

circuit current available)

Signaling

Channel LED off	off (Channel switched off)
Channel LED yellow	lit (Channel switched on, channel load > 80%)
	two flashes (Check the installation, no communication to power module)
Channel LED green	lit (Channel switched on)
	flashing (Channel switched on, coding switch position is not equal to set value)



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Channel LED red	lit (Channel switched off, over- or undervoltage active)
	ON temporarily (Channel switched off, 5 s cool-down phase, overload or short-circuit release)
	flashing (Channel switched off, ready to be switched back on, overload or short-circuit release)
	two flashes (Channel switched off, system total current limit exceeded)
Channel LED red-yellow	flashing (Channel is overloaded and is switched off)
Channel LED red-green	flashing (Channel switched off, programming mode active, current adjustment after overload or short-circuit release)

Dimensions

Dimensional drawing	111.3 0 0 D 0 0 D 0 D 0 D 0 D 0 D 0 D 0 D 0 D
Width	12.4 mm
Height	132.4 mm
Depth	111.3 mm (incl. DIN rail 7.5 mm)

Material specifications

Color	light gray (RAL 7035)
Material	PA 6
	PA 6
	PA 6
	PC
Flammability rating according to UL 94	V-0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-30 °C 65 °C (The temperature range of the power module must be taken into consideration)
Ambient temperature (storage/transport)	-40 °C 70 °C
Altitude	≤ 4000 m (amsl)
Humidity test	96 h, 95 % RH, 40 °C
Shock (operation)	30g (11 ms period, half-sine shock pulse, according to IEC 60068-2-27)
	25g (6 ms duration, half-sine shock pulse in accordance with IEC 60068-2-27, continuous shock)
Vibration (operation)	5g (10 Hz 150 Hz / 10 cycles / axis / X, Y, Z)

Approvals



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UL approval

Identification	UL/C-UL Listed UL 508		
	UL Recognized UL 2367		
	UL 121201 Class I, Division 2, Groups A, B, C, D, T4A		
Corrosive gas test			

Standards and regulations

Standards/specifications	EN 61000-6-2
Note	EMC – Immunity for industrial areas
Standards/specifications	EN 61000-6-3
Note	EMC – Emission for residential, business and commercial properties and small operations
Standards/specifications	EN 60068-2-78
Note	Environmental influences – Moisture and heat, constant
Standards/specifications	EN 50178
Note	Equipping power installations with electronic equipment
Standards/specifications	EN 60068-2-6
Note	Environmental influences – Vibrations (sinusoidal)
Standards/specifications	EN 60068-2-27
Note	Environmental influences – Shocks

Mounting

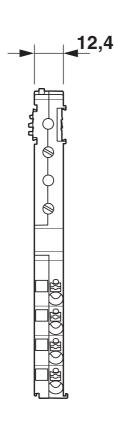
Mounting type	pluggable onto CAPAROC CR current rail



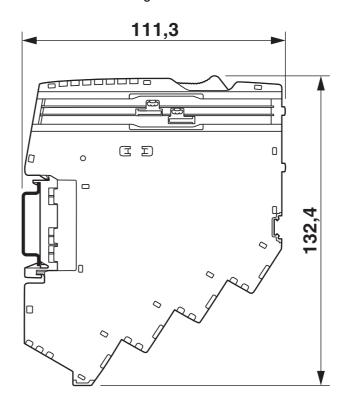
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Drawings



Dimensional drawing



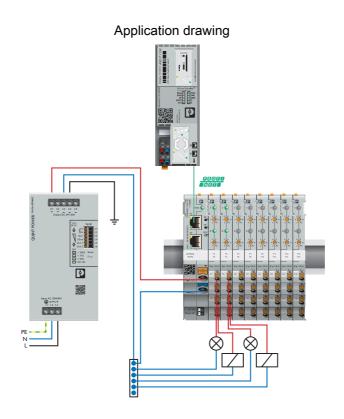
Product drawing





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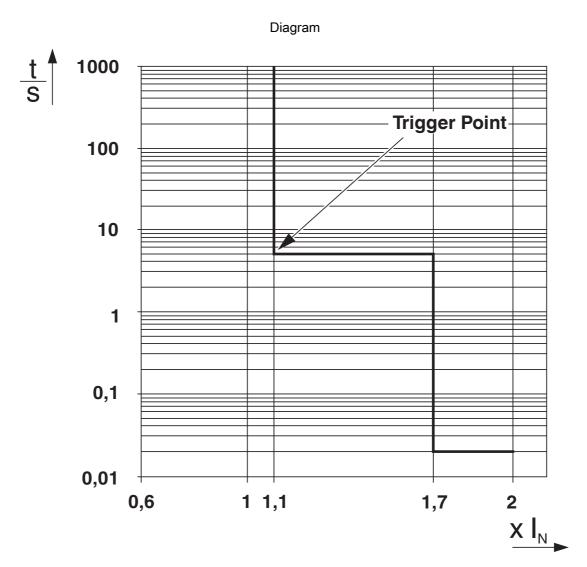
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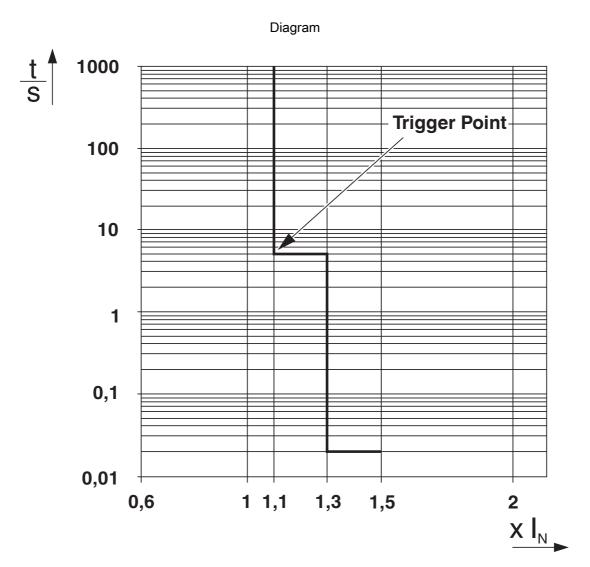


Tripping characteristic < 4 A



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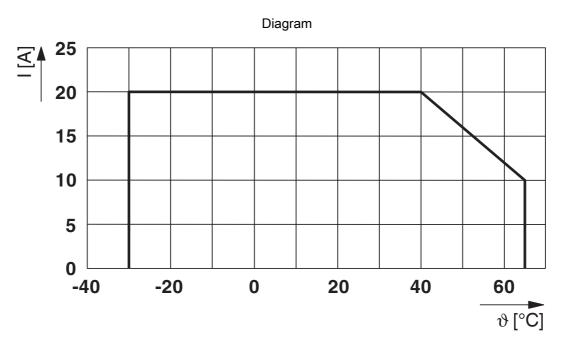


Tripping characteristic ≥ 4 A



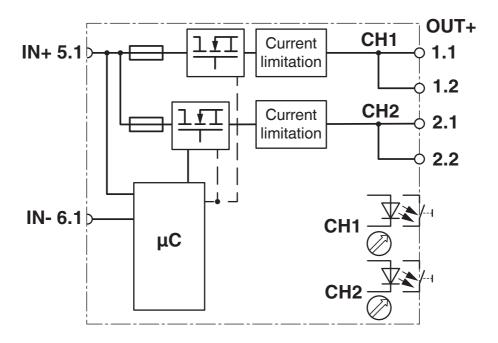
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Max. permissible current in relation to the ambient temperature

Block diagram





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Approvals

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UL Recognized

Approval ID: FILE E 317172



UL Listed

Approval ID: E123528



cUL Listed

Approval ID: E123528



UL Recognized

Approval ID: FILE E 324415



cUL Listed

Approval ID: FILE E 483407



UL Listed

Approval ID: FILE E 483407



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Classifications

ECLASS

	ECLASS-13.0	27140401			
	ECLASS-15.0	27140401			
ETIM					
	ETIM 9.0	EC003538			
UNSPSC					
	UNSPSC 21.0	39121400			

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	50eb8a01-eed3-4436-8128-f47929b7fe53

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com