

1157286

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1-channel electronic circuit breaker module for protecting 12 and 24 V DC loads against overload and short circuit. With fixed nominal current. For DIN rail installation via the CAPAROC current rails

Your advantages

- · The benchmark that you can tailor with channel-precise design with integrated potential distribution
- · Easy operation for everyone through tool-free assembly, uninterrupted installation, and transparent operating state
- · Exceptionally easy design-in with the narrowest of space requirements and four protected outputs

Commercial data

Item number	1157286
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLA232
Product key	CLA232
GTIN	4063151160296
Weight per piece (including packing)	77.46 g
Weight per piece (excluding packing)	71.4 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

Product properties

Product type	Device circuit breakers
Product family	CAPAROC
Туре	Plug-in module
Number of positions	1
No. of channels	1
Number of slots	1

Insulation characteristics

Protection class	III
Pollution degree	2

Electrical properties

General

Operating voltage	10 V DC 30 V DC
Rated voltage	12 V DC
	24 V DC
Rated current I _N	6 A DC (per channel)
Rated current (pre-adjusted)	6 A
Rated surge voltage	0.5 kV
Tripping method	E (electronic)
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)
Fuse	electronic
Efficiency	> 99 %
Closed circuit current I ₀	typ. 8.5 mA (no load at 24 V)
Power dissipation	typ. 0.2 W (no load at 24 V)
	< 0.7 W (in nominal operation at 24 V and 6 A)
Measuring tolerance I	± 15 % (typ.)
MTBF (IEC 61709, SN 29500)	21013987 h (at 25 °C with 21 % load)
	9355455 h (at 40°C with 34.25% load)
	1340653 h (at 40°C with 100% load)
Voltage drop	0.08 V (at 6 A)
Fail-safe element	15 A DC (per output channel)



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Contact switching type	without electrical isolation
Load circuit	
Shutdown time	4 s (with overload 1.11.5 x I _N)
	1 s (with overload 1.52.0 x I _N)
	0.1 s (with overload 2.03.0 x I _N)
	typ. 10 ms (For short circuit > $3.0 \times I_N$)
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	≤ 20000 µF (Depending on the current setting and the short- circuit current available)
Switch-on delay	50 ms (can be adapted with CAPAROC PM IOL and CAPAROC PM PN power modules)

Connection data

Fuse-protected output

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section flexible	0.2 mm² 4 mm²
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

Signaling

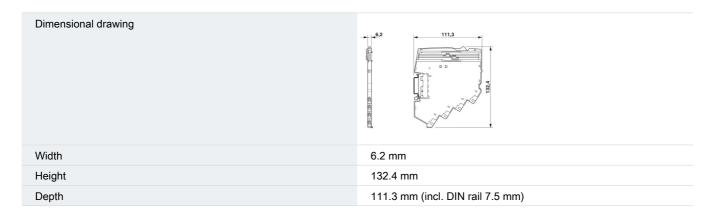
Channel LED off	off (Channel switched off)
Channel LED yellow	lit (Channel switched on, channel load > 80%)
	flashing (Programming mode active)
	two flashes (Check the installation, no communication to power module)
Channel LED green	lit (Channel switched on)
Channel LED red	lit (Channel switched off, 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)

Dimensions



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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 $^{\circ}\text{C}$ 65 $^{\circ}\text{C}$ (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)
	15g (6 ms duration, half-sine shock pulse in accordance with IEC 60068-2-27, continuous shock. If more than six CAPAROC E1 modules are used in the system.)
Vibration (operation)	5g (10 Hz 150 Hz / 10 cycles / axis / X, Y, Z)

Approvals

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



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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

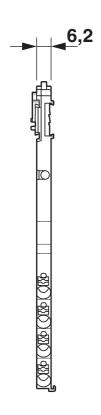
Mounting type	pluggable onto CAPAROC CR current rail



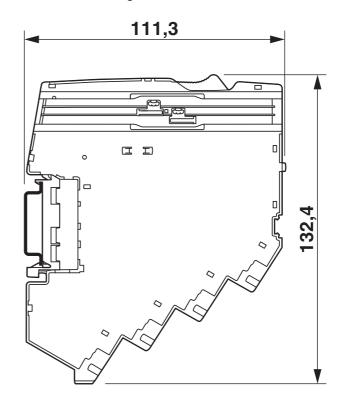
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Drawings



Dimensional drawing



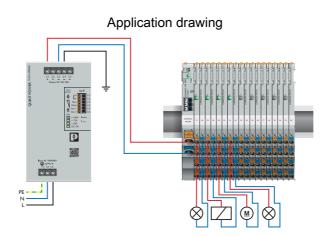
Product drawing



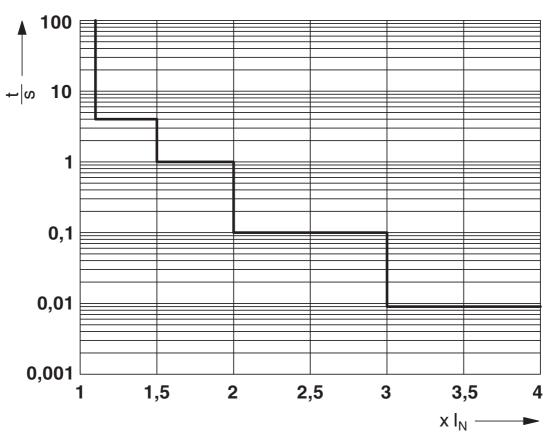


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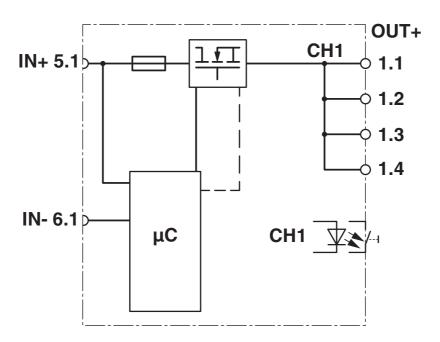
Trigger characteristic



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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		
ΕΊ	ETIM			
	ETIM 9.0	EC003538		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental product compliance

EU RoHS

Yes 7(a), 7(c)-I
7(a), 7(c)-l
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.
Lead(CAS: 7439-92-1)
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
28ffb63c-91b6-49d7-b9d8-3b272e203b7a

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PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au