

1344364

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

Your advantages

- · The customizable standard, thanks to individual combinations of the future-proof modular system
- · Easy operation for everyone through tool-free assembly, uninterrupted installation, and transparent operating state
- · Strikingly simple design-in with extensive support from the selection up to digital services

Commercial data

Item number	1344364
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL11
Product key	CLA233
GTIN	4063151658120
Weight per piece (including packing)	96.7 g
Weight per piece (excluding packing)	110.8 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

Notes

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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.
	Observe the specified conditions for use in potentially explosive areas. Install the device in a suitable approved housing with at least IP54 degree of protection that meets the requirements of IEC/EN 60079-0. Also observe the requirements of IEC/EN 60079-14.

Product properties

CAPAROC Plug-in module 1 2
1
'
2
2
01

III 2

Pollution degree Electrical properties

Protection class

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



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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 ≤ 3 A
	typ. 1.5 x I _{N at} I _N ≥ 4 A
Fuse	electronic
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)
ad circuit	
Shutdown time	5 s (for overload 1.11.3 x I _N at I _N ≥ 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- circuit current available)

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)
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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)
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 11
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

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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)



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	25g (6 ms duration, half-sine shock pulse in accordance with
	IEC 60068-2-27, continuous shock)
Vibration (operation)	5g (10 150 Hz / 10 cycles / axis / X, Y, Z)
pprovals	
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
ATEX	
Identification	TÜV 22 ATEX 8874 X
	II 3G Ex ec IIC T4 Gc
IECEx	
Identification	IECEx TUR 22.0049X
	II 3G Ex ec IIC T4 Gc
UKCA Ex (UKEX)	
Identification	TÜV 22 UKEX 7109 X
	II 3G Ex ec IIC T4 Gc
Corrosive gas test	
Identification	ISA S71.04.2013 G3 Harsh Group A
andards 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
Standards/specifications	IEC 60079-7
Note	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Standards/specifications	IEC 60079-0
Note	Explosive atmospheres – Part 0: Equipment – General requirements

Mounting



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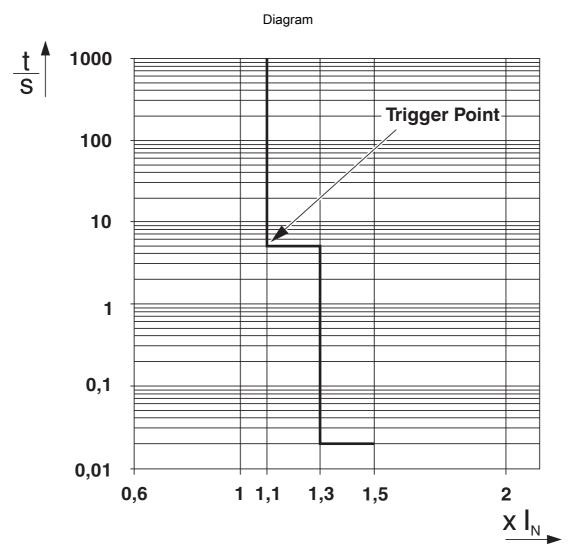
Mounting type pluggable onto CAPAROC CR... current rail



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Drawings

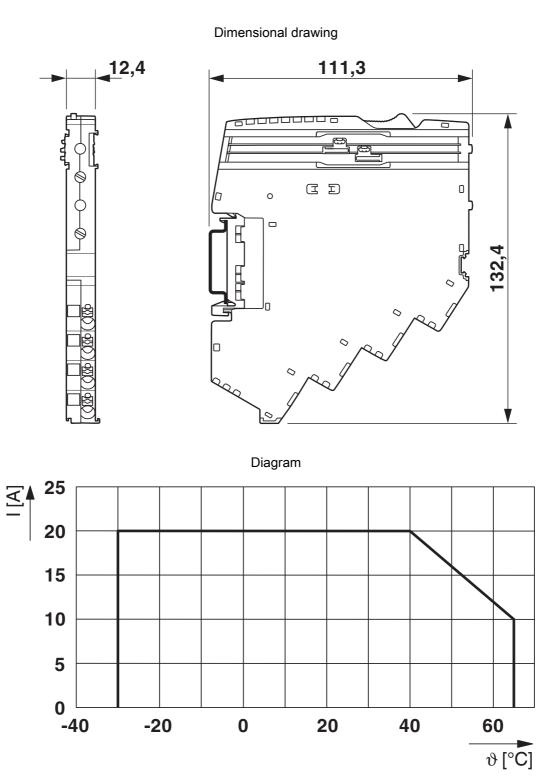


Tripping characteristic ≥ 4 A



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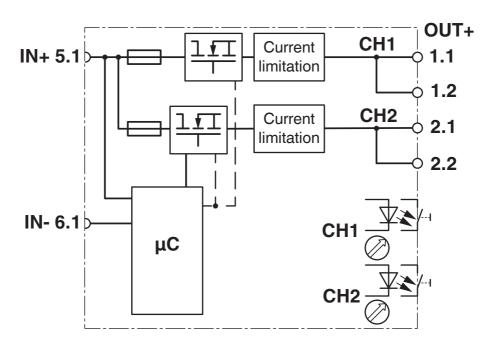
Max. permissible current in relation to the ambient temperature



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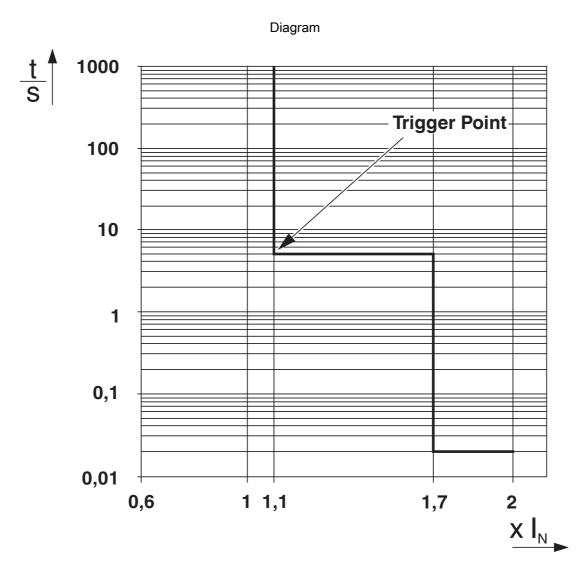
Block diagram





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Tripping characteristic < 4 A



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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



IECEx

Approval ID: IECEx TUR 22.0049X



UL Recognized

Approval ID: FILE E 324415



cUL Listed

Approval ID: FILE E 483407



UL Listed

Approval ID: FILE E 483407



ATEX

Approval ID: TÜV 22 ATEX 8874 X



UKCA-EX

Approval ID: TÜV 22 UKEX 7109 X

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27140401
ECLASS-12.0	27140401
ECLASS-13.0	27140401

ETIM

ETIM 9.0	EC003538	



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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)
SCIP	85c70129-336f-4594-a930-4bb93bf94c07

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