

1115663

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1-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 12 A to 20 A using step switch. 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
- · Protection and supply of particularly large loads, thanks to the extended nominal current range up to 20 A

Commercial data

Item number	1115663
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLA232
Product key	CLA232
GTIN	4063151040574
Weight per piece (including packing)	97 g
Weight per piece (excluding packing)	89.1 g
Customs tariff number	85363030
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	1	
Number of slots	2	
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	20 A DC (per channel)
	adjustable from 2 A to 20 A in 1 A increments, in RC mode via power module with communication interface
Rated current I _N	12 / 14 / 16 / 18 / 20 A DC (Adjustable via rotary coding switches)
Rated current (pre-adjusted)	12 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. 1.7 x I _N
	Dynamic range of 1.4 1.7 x $I_{\rm N}$ in case of a weak power supply unit



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Fuse	electronic
Efficiency	> 99 %
Closed circuit current I ₀	typ. 11 mA (no load at 24 V)
Power dissipation	typ. 280 mW (no load at 24 V)
	< 2.8 W (In nominal operation at 24 V and 20 A)
Measuring tolerance I	± 10 % (typ.)
Temperature derating	20 A (Total current at 40°C)
	12 A (Total current at 65 °C)
MTBF (IEC 61709, SN 29500)	9874919 h (at 25 °C with 21 % load)
	4130456 h (at 40°C with 34.25% load)
	476899 h (at 40°C with 100% load)
Voltage drop	< 0.16 V (at 20 A)
Fail-safe element	30 A DC (2 x 15 A parallel per output channel)
Contact switching type	without electrical isolation
pad circuit	
Shutdown time	5 s (with overload 1.11.5 x I _N)
	typ. 100 ms (1 s, maximum, for high startup currents)
	typ. 7 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	≥ 31.5 V DC (active)
	≤ 30.5 V DC (inactive)
Max. capacitive load	75000 μF (Depending on the current setting, the system voltage and the available short-circuit current)

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

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 yellow-green	flashing (Nominal current assistant)
Channel LED green	lit (Channel switched on)
	flashing (Channel switched on, rotary switch position does not



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	correspond to the 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, weak power supply unit detected)
Channel LED red-yellow	flashing (Channel is overloaded and is switched off)
Channel LED red-green	flashing (Channel switched off, rotary switch position does not correspond to the set value after overload or short-circuit tripping)

Dimensions

Dimensional drawing	111.3
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 and the maximum current depending on the ambient temperature 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)



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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

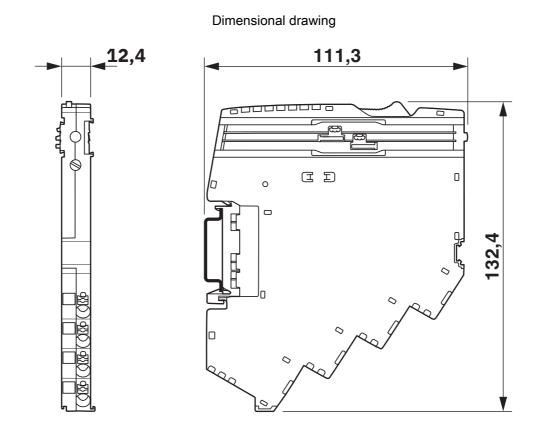
Mounting type	pluggable onto CAPAROC CR current rail



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Drawings





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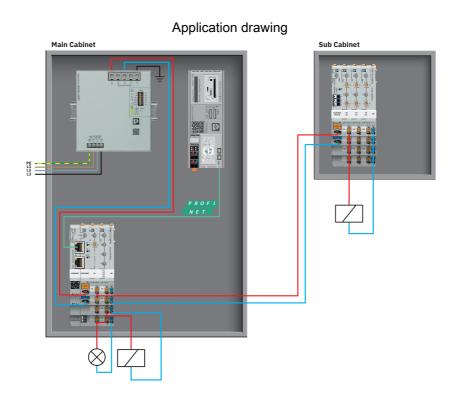
Product drawing





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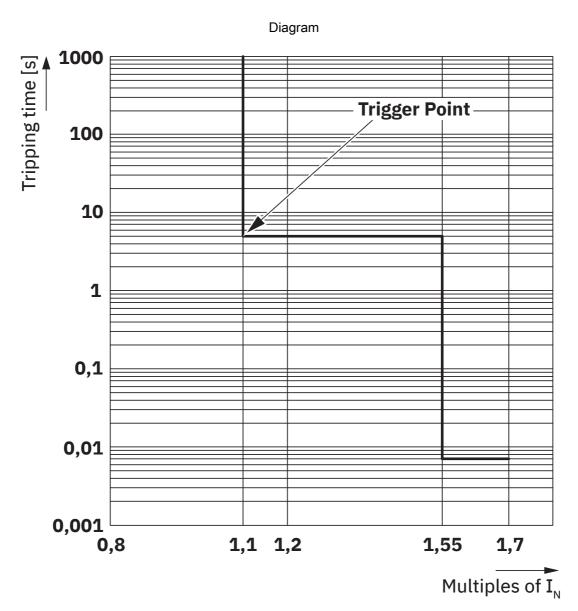
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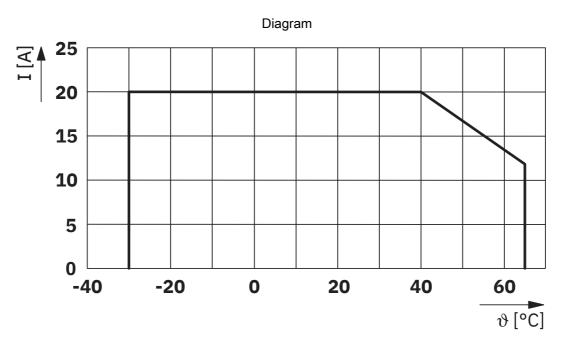


Trigger characteristic



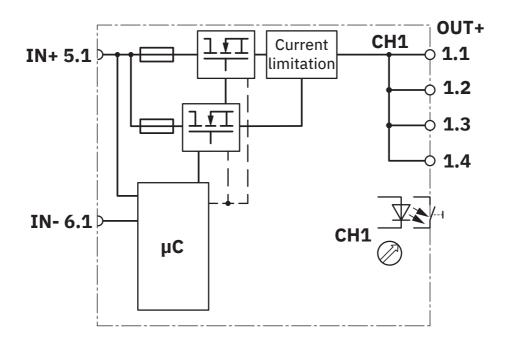
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Max. permissible current in relation to the ambient temperature

Block diagram





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Classifications

ETIM 9.0

ECLASS

	ECLASS-13.0	27140401
	ECLASS-15.0	27140401
ET	ТІМ	

EC003538



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements Exemption	Yes 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)

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