CAPAROC PD 0V - Potential distributors

1110987

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Potential distributor with Push-in connections for directly connecting the 0 V return conductor in the CAPAROC system. For DIN rail installation via the CAPAROC current rails.

Your advantages

- The benchmark that you can tailor with direct pairwise integration into the system alongside the circuit breaker module
- Particularly easy operation for everyone with tool-free insertion without additional wiring effort
- Exceptionally easy design-in with color-coded pushers for clear identification of the potentials

Commercial data

Item number	1110987
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL11
Product key	CLA23Z
GTIN	4063151029395
Weight per piece (including packing)	61.7 g
Weight per piece (excluding packing)	79.7 g
Customs tariff number	85363030
Country of origin	DE

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
Type	Plug-in module
Number of slots	1

Insulation characteristics

Protection class	III
Pollution degree	2

Electrical properties

General

Operating voltage	0 V DC ... 30 V DC
Rated voltage	12 V DC
	24 V DC
Rated current I_N	4x 10 A DC (per output)
	2x 20 A DC (per output)
	40 A DC (Total)
Rated surge voltage	0.5 kV
Efficiency	> 99 %
Power dissipation	< 0.4 W (in nominal operation at 24 V and 4 x 10 A)
MTBF (IEC 61709, SN 29500)	269532625 h (at 25 °C with 21 % load)
	269532334.5 h (at 40°C with 34.25% load)
	269530881.5 h (at 60°C with 100% load)
Voltage drop	9.7 mV (at 10 A)

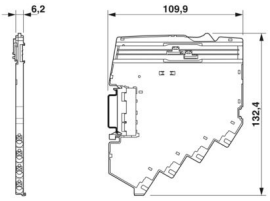
Connection data

Load circuit

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

Dimensions

Dimensional drawing	
Width	6.2 mm
Height	132.4 mm
Depth	109.9 mm (incl. DIN rail 7.5 mm)

Material specifications

Color	light gray (RAL 7035)
Material	PA 6
	PA 6
	PA 6
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

UL approval

Identification	UL/C-UL Listed UL 508
	UL 121201 Class I, Division 2, Groups A, B, C, D, T4A

Corrosive gas test

Identification	ISA S71.04.2013 G3 Harsh Group A

Standards and regulations

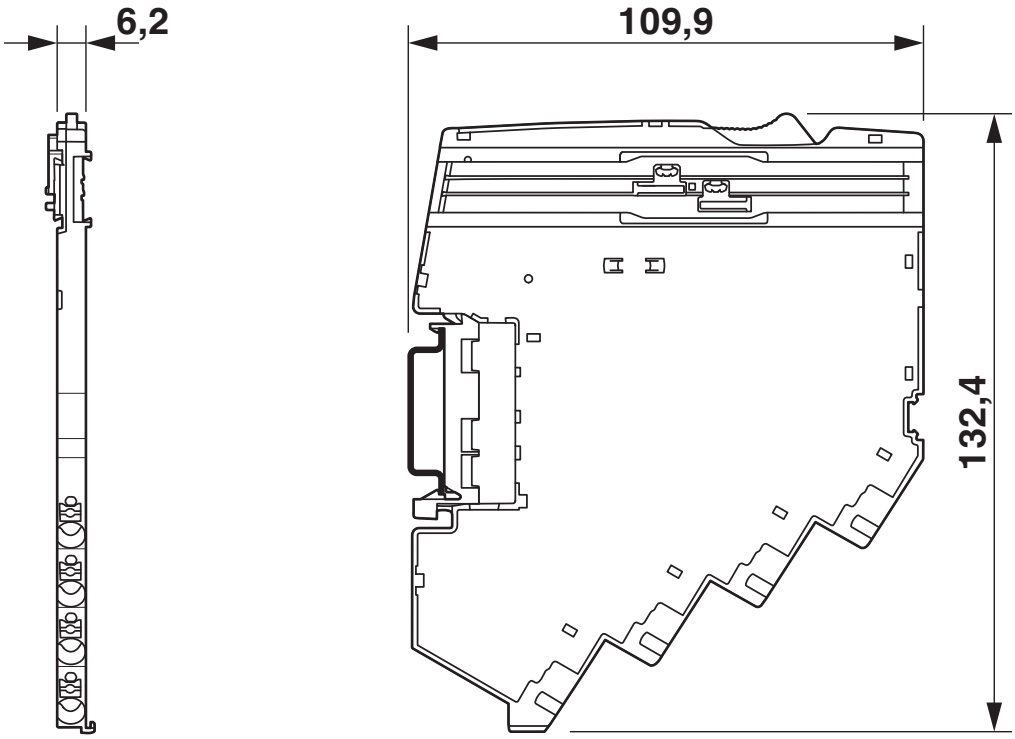
Standards/specifications	EN 61000-6-2
Note	EMC – Immunity for industrial areas
Standards/specifications	EN 61000-6-3
Note	EMC – Emission for residential, business and commercial properties and small operations
Standards/specifications	EN 60068-2-78
Note	Environmental influences – Moisture and heat, constant
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

Drawings

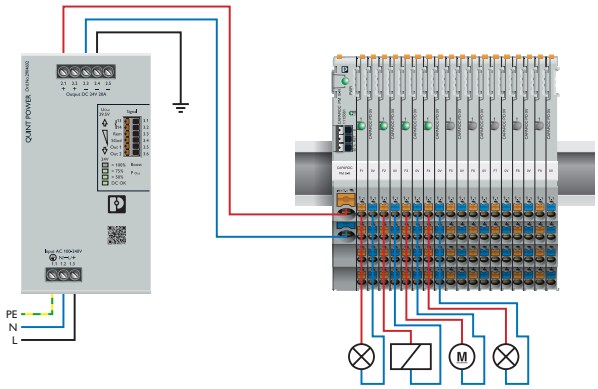
Dimensional drawing



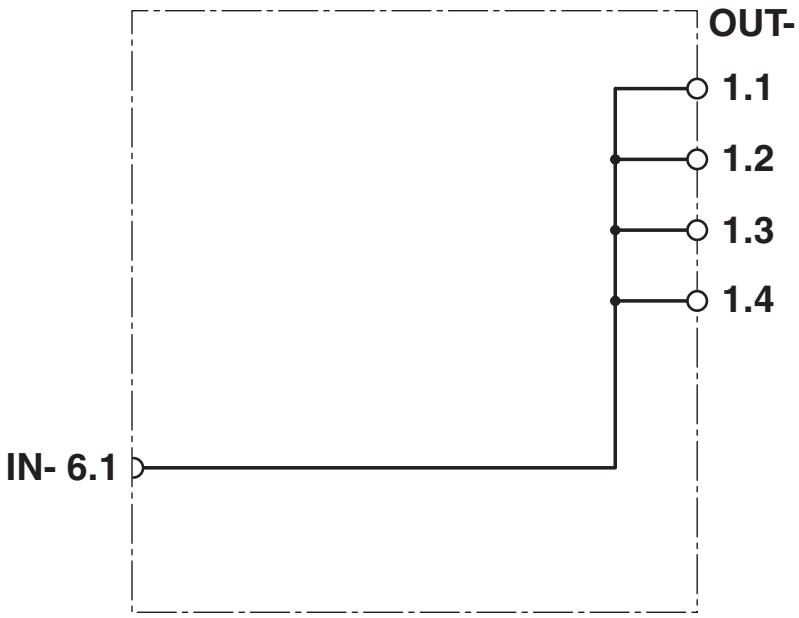
Product drawing



Application drawing



Block diagram



Approvals

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UL Listed
Approval ID: E123528

cUL Listed
Approval ID: E123528

cUL Listed
Approval ID: FILE E 483407

UL Listed
Approval ID: FILE E 483407

Classifications

ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

ETIM

ETIM 9.0	EC003538

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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