Potential distributors - CAPAROC PD 0V

1110987

https://www.phoenixcontact.com/us/products/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	C34
Product Key	CLA23Z
GTIN	4063151029395
Weight per Piece (including packing)	79.7 g
Weight per Piece (excluding packing)	79.7 g
Customs tariff number	85363010
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
Number of slots	1

Insulation characteristics

Protection class	III
Pollution degree	2

Electrical properties

General

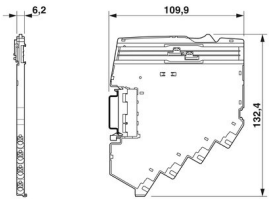
Operating voltage	0 V DC ... 30 V DC
Rated voltage	12 V DC
	24 V DC
Rated current I_N	10 A DC (per output)
	40 A DC (Total)
Rated surge voltage	0.5 kV
Efficiency	> 99 %
Power dissipation	< 0.4 W (in nominal operation at 24 V and 4 x 10 A)
MTBF (IEC 61709, SN 29500)	269532625 h (at 25 °C with 21 % load)
	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 solid	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 grey RAL 7035
Material	PA 6 (Housing)
	PA 6 (Pusher)
	PA 6 (Release lever)
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 (above mean sea level))
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 ... 150 Hz / 10 cycles / axis / X, Y, Z)

Approval data

UL approval

Identification	UL/C-UL Listed UL 508

Standards and regulations

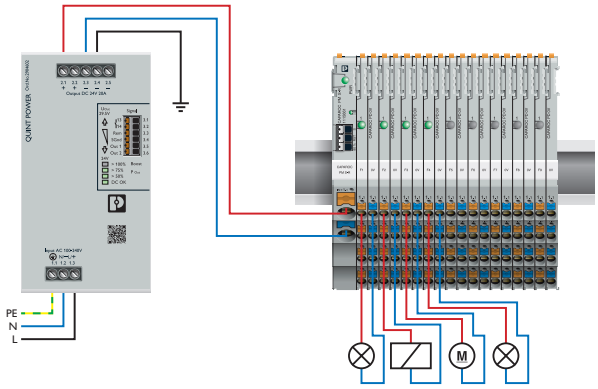
Standards/specifications	EN 61000-6-2
Standards/specifications	EN 61000-6-3
Standards/specifications	EN 60068-2-78
Standards/specifications	EN 50178
Standards/specifications	EN 60068-2-6
Standards/specifications	EN 60068-2-27

Mounting

Mounting type	pluggable onto CAPAROC CR… current rail

Drawings

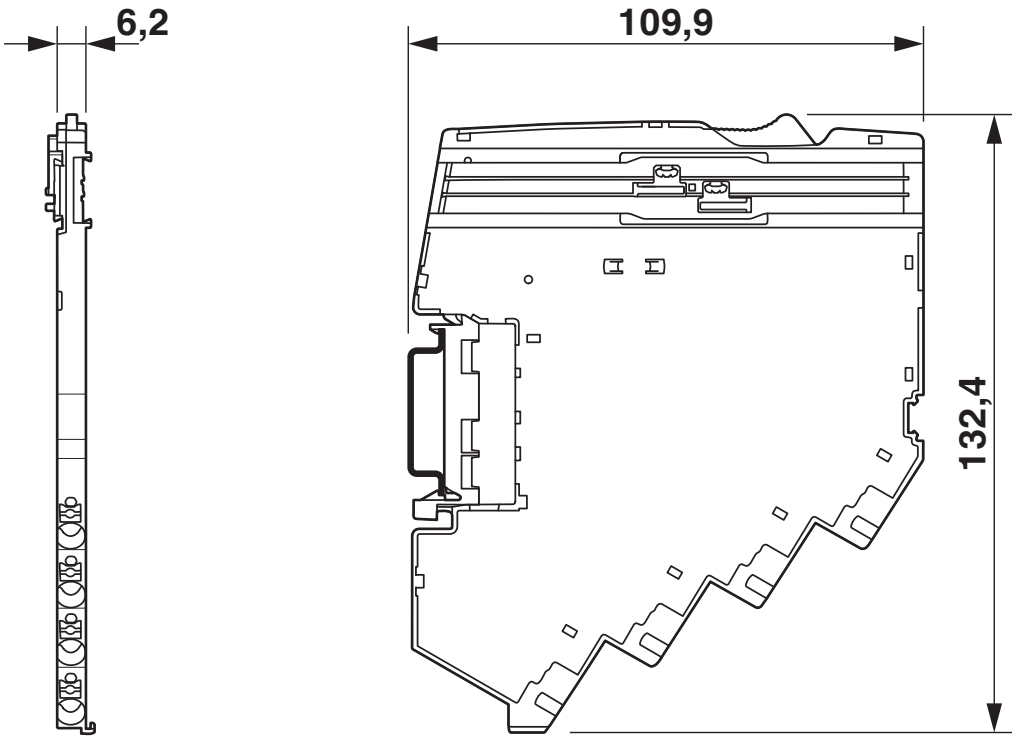
Application drawing



Product drawing



Dimensional drawing



Approvals

UL Listed
Approval ID: FILE E 123528

cUL Listed
Approval ID: FILE E 123528

cULus Listed

Classifications

ECLASS

ECLASS-9.0	27141116
ECLASS-10.0.1	27140401
ECLASS-11.0	27140401

ETIM

ETIM 8.0	EC003538

UNSPSC

UNSPSC 21.0	39121400

Mandatory Accessories

Busbar

Busbar - CAPAROC CR 20 - 1110989

https://www.phoenixcontact.com/us/products/1110989

Busbar for CAPAROC system with 20 slots. For installation on a DIN rail.



Busbar

Busbar - CAPAROC CR 8 - 1115672

https://www.phoenixcontact.com/us/products/1115672

Busbar for the CAPAROC system with 8 slots. For installation on a DIN rail.



Power module

Power module - CAPAROC PM S-R - 1115661

https://www.phoenixcontact.com/us/products/1115661



Power module with status output and reset input for supplying the CAPAROC circuit breaker system with 12 or 24 V DC. For DIN rail installation via the CAPAROC current rails.

Power module

Power module - CAPAROC PM PN - 1110986

https://www.phoenixcontact.com/us/products/1110986



Power module with PROFINET interface for supplying the CAPAROC circuit breaker system with 12 or 24 V DC. Additional system interface for communication with the power supply. For DIN rail installation via the CAPAROC current rails.

Accessories

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E1 12-24DC/1-4A - 1115415

https://www.phoenixcontact.com/us/products/1115415



1-channel electronic circuit breaker module for protecting 12 and 24 V DC loads against overload and short circuit. Nominal current adjustable from 1 A to 4 A via LED button. For DIN rail installation via the CAPAROC current rails.

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E1 12-24DC/1-10A - 1115649

https://www.phoenixcontact.com/us/products/1115649



1-channel electronic circuit breaker module for protecting 12 and 24 V DC loads against overload and short circuit. Nominal current adjustable from 1 A to 10 A via LED button. For DIN rail installation via the CAPAROC current rails.

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E1 12-24DC/1A - 1157288

https://www.phoenixcontact.com/us/products/1157288



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.

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E1 12-24DC/2A - 1157290

https://www.phoenixcontact.com/us/products/1157290



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.

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E1 12-24DC/4A - 1157285

https://www.phoenixcontact.com/us/products/1157285



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.

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E1 12-24DC/6A - 1157286

https://www.phoenixcontact.com/us/products/1157286



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.

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E1 12-24DC/8A - 1157279

https://www.phoenixcontact.com/us/products/1157279



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.

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E1 12-24DC/10A - 1157284

https://www.phoenixcontact.com/us/products/1157284



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.

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E2 12-24DC/1-4A - 1115655

https://www.phoenixcontact.com/us/products/1115655



2-channel electronic circuit breaker module for protecting 12 and 24 V DC loads against overload and short circuit. Nominal current adjustable from 1 A to 4 A via step switch. For DIN rail installation via the CAPAROC current rails.

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E2 12-24DC/2-10A - 1110984

https://www.phoenixcontact.com/us/products/1110984



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

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E4 12-24DC/1-4A - 1115657

https://www.phoenixcontact.com/us/products/1115657



Four-channel electronic circuit breaker module for protecting 12 and 24 V DC loads against overload and short circuit. Nominal current adjustable from 1 A to 4 A via LED button. For DIN rail installation via the CAPAROC current rails.

Electronic circuit breaker

Electronic circuit breaker - CAPAROC E4 12-24DC/1-10A - 1115658

https://www.phoenixcontact.com/us/products/1115658



Four-channel electronic circuit breaker module for protecting 12 and 24 V DC loads against overload and short circuit. Nominal current adjustable from 1 A to 10 A via LED button. For DIN rail installation via the CAPAROC current rails.

Marker for terminal blocks

Marker for terminal blocks - UC-TM 6 - 0818085

https://www.phoenixcontact.com/us/products/0818085



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

Marker for terminal blocks

Marker for terminal blocks - UCT-TM 6 - 0828736

https://www.phoenixcontact.com/us/products/0828736



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

Busbar

Busbar - CAPAROC CR EXT20 - 1115674

https://www.phoenixcontact.com/us/products/1115674



Extension busbar with 20 slots for the CAPAROC system. For installation on a DIN rail.

Busbar

Busbar - CAPAROC CR EXT8 - 1110990

https://www.phoenixcontact.com/us/products/1110990



Extension busbar with 8 slots for CAPAROC system. For installation on a DIN rail.

Busbar

Busbar - CAPAROC CR EXT4 - 1110991

https://www.phoenixcontact.com/us/products/1110991



Extension busbar with 4 slots for the CAPAROC system. For installation on a DIN rail.

Metal part

Metal part - CAPAROC CR CON - 1270955

https://www.phoenixcontact.com/us/products/1270955



Metal extension rails from connecting CAPAROC initial busbars.

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