

CAPAROC PD 0V - Potential distributors



1110987
<https://www.phoenixcontact.com/pc/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
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

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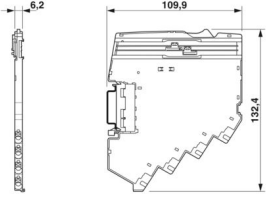


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Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 4 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 4 mm ²

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
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Standards and regulations

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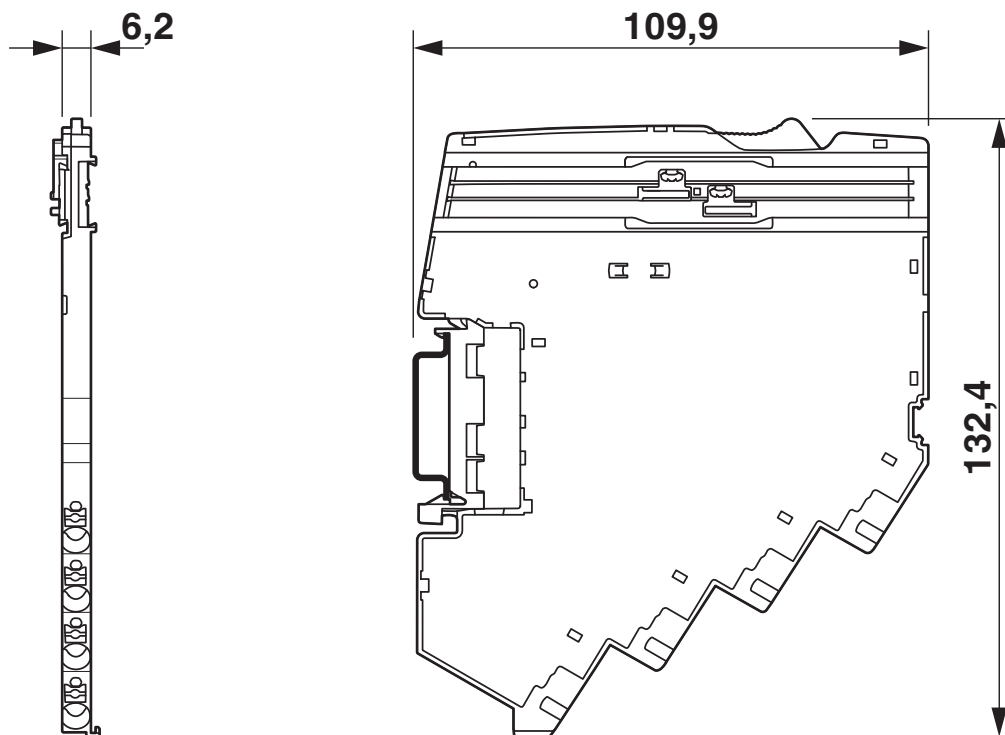
Standards/specifications	EN 61000-6-2
Note	EMC – Immunity for industrial areas
Standards/specifications	EN 61000-6-3
Note	EMC – Emission for residential, business and commercial properties and small operations
Standards/specifications	EN 60068-2-78
Note	Environmental influences – Moisture and heat, constant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



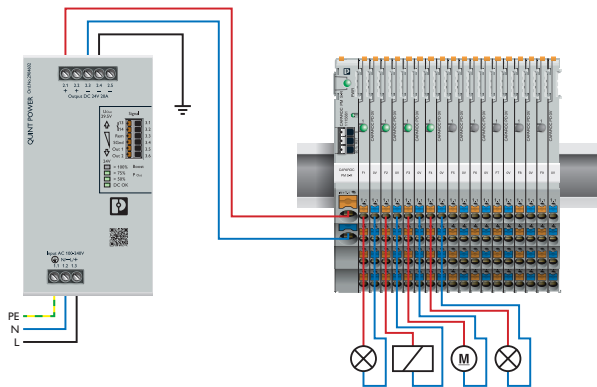
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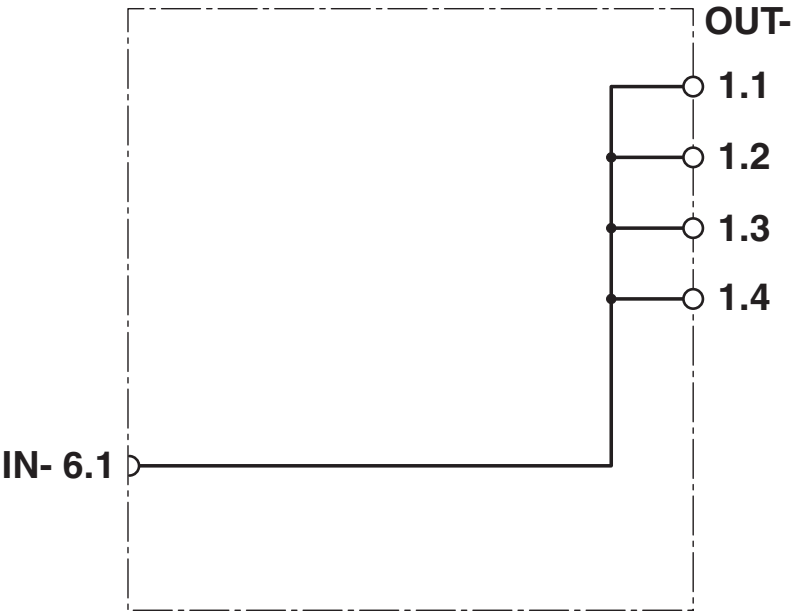
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Application drawing



Block diagram



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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

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Classifications

ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

ETIM

ETIM 9.0	EC003538
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UNSPSC

UNSPSC 21.0	39121400
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Mandatory accessories

CAPAROC CR 20 - Busbar

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



CAPAROC CR 8 - Busbar

1115672

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



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CAPAROC PM S-R - Feed-in module

1115661

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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.

CAPAROC PM PN - Feed-in module

1110986

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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.

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CAPAROC PM IOL - Feed-in module

1115670

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Power module with IO-Link interface for supplying the CAPAROC circuit breaker system with 12 or 24 V DC for up to 20 channels. For DIN rail installation via the CAPAROC current rails.

CAPAROC PM EIP - Feed-in module

1393553

<https://www.phoenixcontact.com/pc/products/1393553>



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

Accessories

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

1115415

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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.

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

1115649

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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.

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

1157288

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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.

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

1157290

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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.

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

1157285

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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.

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

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.

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

1157279

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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.

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

1157284

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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.

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

1115655

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2-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 1 A to 4 A using step switch. For DIN rail installation via the CAPAROC current rails.

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

1110984

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2-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 2 A to 10 A using step switch. For DIN rail installation via the CAPAROC current rails.

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

1115657

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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.

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

1115658

<https://www.phoenixcontact.com/pc/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.

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UC-TM 6 - Marker for terminal blocks

0818085

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Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 6.2 mm, Number of individual labels: 80, text field height: 10.5 mm, text field width: 5.6 mm

UCT-TM 6 - Marker for terminal blocks

0828736

<https://www.phoenixcontact.com/pc/products/0828736>



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

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CAPAROC CR EXT20 - Busbar

1115674

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



CAPAROC CR EXT8 - Busbar

1110990

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



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CAPAROC CR EXT4 - Busbar

1110991

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

CAPAROC CR CON - Metal part

1270955

<https://www.phoenixcontact.com/pc/products/1270955>



Metal extension rails from connecting CAPAROC initial busbars.

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