

# CAPAROC CR 20 - Busbar



1110989

<https://www.phoenixcontact.com/de/produkte/1110989>

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



## Your advantages

- The benchmark that you can customize with lengths that can be adapted to your requirements
- Particularly easy operation for everyone with the simple Plug and Play design
- Exceptionally easy design-in with universal busbars up to 45 A

## Commercial data

Item number	1110989
Packing unit	3 pc
Minimum order quantity	3 pc
Sales key	L1 - Schutzschalter
Product key	CLA23Z
GTIN	4063151024697
Weight per piece (including packing)	58,12 g
Weight per piece (excluding packing)	49,39 g
Customs tariff number	85366990
Country of origin	DE

## Technical data

### Notes

#### General

Note	LABS release – in accordance with test specification VW PV 3. 10.7:2005-0
	When using CAPAROC E1... modules, for continuous shock in accordance with IEC 60068-2-27 the 6 ms / 15g degree of severity applies

### Product properties

Product type	Device circuit breakers
Product family	CAPAROC
Number of slots	20

#### Data management status

Article revision	03
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#### Insulation characteristics

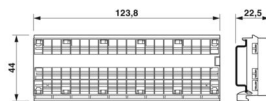
Protection class	III
Pollution degree	2

### Electrical properties

#### General

Rated voltage	24 V DC
Rated current $I_N$	45 A DC (Total current input)
Power dissipation	< 1.2 W (At 45 A in the plus path)

### Dimensions

Dimensional drawing	
Width	123.8 mm
Height	44 mm
Depth	22.5 mm (incl. DIN rail 7.5 mm)

### Material specifications

Color	light gray (RAL 7035)
Material	Copper
	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 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)
	15g (6 ms duration, half-sine shock pulse in accordance with IEC 60068-2-27, continuous shock. If more than six CAPAROC E1 modules are used in the system.)
Vibration (operation)	5g (10 ... 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

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	DIN rail: 35 mm
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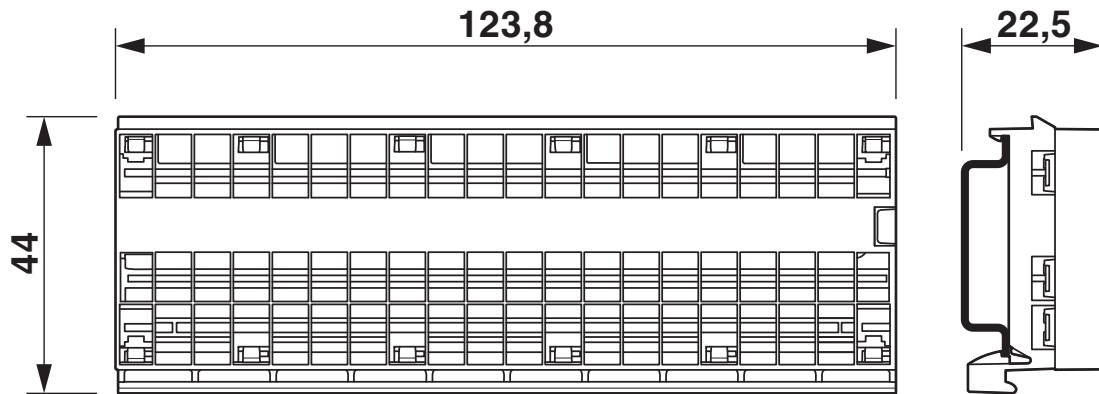
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## Drawings

Dimensional drawing




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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

**cULus Listed**

**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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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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## Accessories

### CAPAROC PM PN - Power module

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<https://www.phoenixcontact.com/de/produkte/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.

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### CAPAROC PM S-R - Power module

1115661

<https://www.phoenixcontact.com/de/produkte/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.



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## CAPAROC PM IOL - Power module

1115670

<https://www.phoenixcontact.com/de/produkte/1115670>



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.

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## CAPAROC PM EIP - Power module

1393553

<https://www.phoenixcontact.com/de/produkte/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.

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

1115415

<https://www.phoenixcontact.com/de/produkte/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.

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

1115649

<https://www.phoenixcontact.com/de/produkte/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.

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

1157288

<https://www.phoenixcontact.com/de/produkte/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.

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

1157290

<https://www.phoenixcontact.com/de/produkte/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.

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

1157285

<https://www.phoenixcontact.com/de/produkte/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.

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

1157286

<https://www.phoenixcontact.com/de/produkte/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.

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

1157279

<https://www.phoenixcontact.com/de/produkte/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.

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

1157284

<https://www.phoenixcontact.com/de/produkte/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.

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

1115655

<https://www.phoenixcontact.com/de/produkte/1115655>



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.

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

1110984

<https://www.phoenixcontact.com/de/produkte/1110984>



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

<https://www.phoenixcontact.com/de/produkte/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.

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

1115658

<https://www.phoenixcontact.com/de/produkte/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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## CAPAROC PD 0V - Potential distributors

1110987

<https://www.phoenixcontact.com/de/produkte/1110987>



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.

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## CAPAROC CR EXT20 - Busbar

1115674

<https://www.phoenixcontact.com/de/produkte/1115674>



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



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## CAPAROC CR EXT8 - Busbar

1110990

<https://www.phoenixcontact.com/de/produkte/1110990>



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

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## CAPAROC CR EXT4 - Busbar

1110991

<https://www.phoenixcontact.com/de/produkte/1110991>



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

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## CAPAROC CR CON - Metal part

1270955

<https://www.phoenixcontact.com/de/produkte/1270955>



Metal extension rails from connecting CAPAROC initial busbars.

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