

1687559

https://www.phoenixcontact.com/us/products/1687559

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Feed-in module with Modbus/TCP 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.

Product description

Further information about the CAPAROC product family can be found in the online manual at: phoenixcontact.com/caparoc-help

Your advantages

- The benchmark that you can customize by selecting single signals and resets all the way to Modbus/TCP communication
- · Particularly easy operation for everyone with tool-free assembly, direct feed-in to the busbar, and clear operating states
- · Exceptionally easy design-in with the comprehensive digital data packet for universal use in communication applications

Commercial data

Item number	1687559
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL11
Product key	CLA231
GTIN	4067923247413
Weight per piece (including packing)	183.5 g
Weight per piece (excluding packing)	147.8 g
Customs tariff number	85363030
Country of origin	DE



1687559

https://www.phoenixcontact.com/us/products/1687559

Technical data

Notes

General

Conordi	
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 slots	4
Insulation characteristics	
Protection class	III
Pollution degree	2

System properties

Modbus/TCP server

Device function	MODBUS TCP/IP Server
Addressing	DHCP, BootP, static (default: 192.168.1.2)

Electrical properties

General

Operating voltage	10 V DC 30 V DC
Rated voltage	12 V DC
	24 V DC
Rated current I _N	45 A DC (Total current input)
Rated surge voltage	0.5 kV
Tripping method	E (electronic)
Feedback resistance	max. 35 V DC
Dielectric strength	35 V DC (Load circuit)
Efficiency	> 99 %
Closed circuit current I ₀	typ. 46 mA (no load at 24 V)
Power dissipation	typ. 1.1 W (no load at 24 V)
	< 4.5 W (at 40 A)
Temperature derating	45 A (Total current at 60°C)
	20 A (Total current at 65 °C)
	45 A (Total current at 60°C, in accordance with UL)
	7242508.37 h (at 25 °C with 21 % load)



1687559

https://www.phoenixcontact.com/us/products/1687559

MTBF (IEC 61709, SN 29500)	3958056.77 h (at 40°C with 34.25% load)
	764697.81 h (at 60°C with 100% load)
Voltage drop	0.082 V (at 40 A)
Load circuit	
Undervoltage switch-off	≤ 9.2 V DC (active)
	≥ 10.2 V DC (inactive)
Overvoltage switch-off	≥ 30.5 V DC (active)
	≤ 29.5 V DC (inactive)

Connection data

Main circuit IN+

Connection method	Push-in connection
Stripping length	18 mm
Conductor cross-section AWG	20 8
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.5 mm² 16 mm²
Conductor cross-section flexible, with ferrule without plastic sleeve	0.5 mm² 16 mm²

Main circuit IN-

Connection method	Push-in connection
Stripping length	18 mm
Conductor cross-section AWG	20 8
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.5 mm² 16 mm²
Conductor cross-section flexible, with ferrule without plastic sleeve	0.5 mm² 16 mm²

System communication

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross-section rigid	0.2 mm² 1.5 mm²
Conductor cross-section AWG	24 16
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.2 mm² 0.75 mm²
Conductor cross-section flexible, with ferrule without plastic sleeve	0.2 mm² 1.5 mm²

Interfaces

Maximum system extension	≤ 16 (CAPAROC modules alignable)
Interface type	Ethernet
Number	2
Transmission speed	10 Mbps 100 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
Protocols supported	MODBUS TCP/IP

Signaling

Connection X1 LED green	lit (connect)
-------------------------	---------------



https://www.phoenixcontact.com/us/products/1687559



Connection X1 LED yellow	lit (traffic)
Connection X2 LED green	lit (connect)
Connection X2 LED yellow	lit (traffic)
Power (PWR) LED green	lit (Supply voltage within the operating voltage range)
	3x flashing (Global programming lock deactivated)
Power (PWR) LED red	lit (Supply voltage outside the operating voltage range)
	5x flashing (Factory reset command accepted)
Power (PWR) LED yellow	lit (PWR button pressed)
	3x flashing (Global programming lock activated)
Ready (RDY) LED green	lit (Firmware started successfully)
Error (ERR) LED red	off (No communication error)
	flashing (System error active)
	lit (Communication error active)
Run (RUN) LED green	lit (At least one TCP connection is established)
	flashing (Waiting for a TCP connection)
	off (Not ready)

Dimensions

Dimensional drawing	24.8 111.3 PZEI
Width	24.8 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
	-30 °C 60 °C (in acc. with UL)
Ambient temperature (storage/transport)	-40 °C 70 °C
Altitude	≤ 4000 m (amsl)



1687559

https://www.phoenixcontact.com/us/products/1687559

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

Standards and regulations

Standards/specifications	EN 61000-6-2
Note	EMC – Immunity for industrial areas
Standards/specifications	EN 61000-6-4
Note	EMC – Immunity for industrial areas
Standards/specifications	EN 61000-6-8
Note	EMC interference emission for professional devices that are used in business and commercial areas as well as in small businesses
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

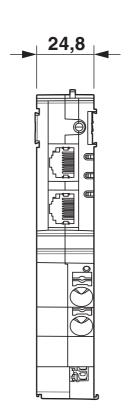
Mounting type	pluggable onto CAPAROC CR current rail
9 ., p	b88



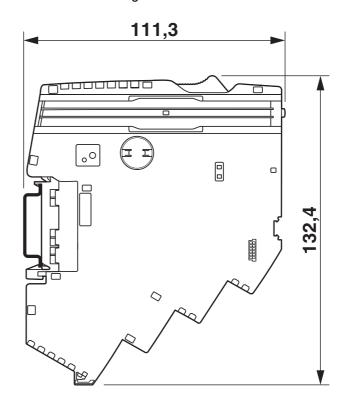
1687559

https://www.phoenixcontact.com/us/products/1687559

Drawings



Dimensional drawing

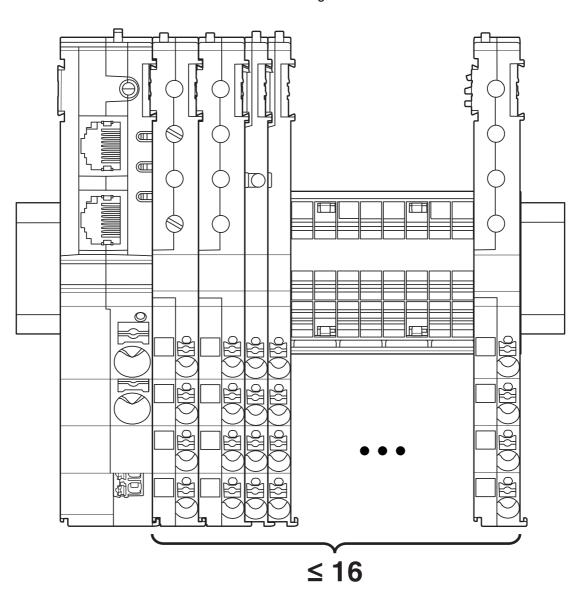




1687559

https://www.phoenixcontact.com/us/products/1687559

Schematic diagram

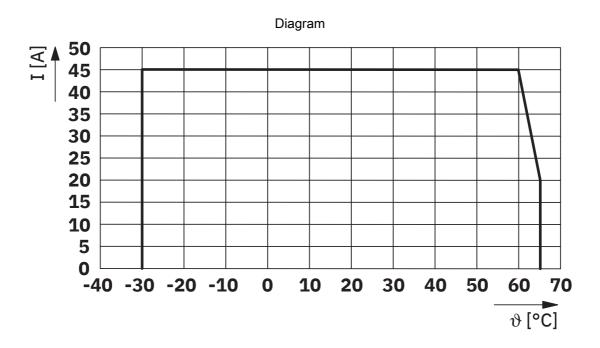


When using the feed-in module, max. 16 circuit breaker modules can be set. Any number of extra potential distribution modules can be added.



1687559

https://www.phoenixcontact.com/us/products/1687559





1687559

https://www.phoenixcontact.com/us/products/1687559

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1687559



UL Listed

Approval ID: E123528



cUL Listed

Approval ID: E123528



cULus Listed

Approval ID: E483407



1687559

https://www.phoenixcontact.com/us/products/1687559

Classifications

ETIM 9.0

ECLASS

	ECLASS-13.0	27140401
	ECLASS-15.0	27140401
ET	TIM	

EC003538



1687559

https://www.phoenixcontact.com/us/products/1687559

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
Exemption	r(a), r(c)-1
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)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com