

1115658

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

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.



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.

Your advantages

- · The benchmark that you can tailor with the individual combination of multi-channel protective modules
- · Easy operation for everyone through tool-free assembly, uninterrupted installation, and transparent operating state
- Exceptionally easy design-in with four separately fused channels with the narrowest of space requirements of just 3 mm per channel

Commercial data

Item number	1115658
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL11
Product key	CLA234
GTIN	4063151040192
Weight per piece (including packing)	94.2 g
Weight per piece (excluding packing)	86.4 g
Customs tariff number	85363010
Country of origin	DE



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

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
Туре	Plug-in module
Number of positions	1
No. of channels	4
Number of slots	2
Insulation characteristics	
Protection class	III
Pollution degree	2

Electrical properties

Operating voltage	10 V DC 30 V DC
Rated voltage	12 V DC
	24 V DC
Rated current I _N	10 A DC (per channel)
Rated current I _N	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 A DC (adjustable per output channel)
Rated current (pre-adjusted)	4 A
Rated surge voltage	0.5 kV
Tripping method	E (electronic)
Feedback resistance	max. 35 V DC
Switch-on delay	50 ms (each channel preset by default)
	can be adapted with CAPAROC PM IOL and CAPAROC PM PN power modules
Required backup fuse	Only required if I _{max} of the power supply > the short-circuit switching capacity. Integrated failsafe element.
Short-circuit switching capacity	300 A
Dielectric strength	35 V DC (Load circuit)
Fuse	electronic
Efficiency	> 99 %
Closed circuit current I ₀	typ. 20 mA (no load at 24 V)
Power dissipation	typ. 0.48 W (no load at 24 V)



1115658

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

	< 6 W (in nominal operation at 24 V and 10 A)
Vaiting time after switch off of a channel	5 s (at overload / short circuit)
Measuring tolerance I	± 10 % (typ.)
Temperature derating	16 A (Total current at 65 °C)
	40 A (Total current at 25°C)
MTBF (IEC 61709, SN 29500)	6325945.91 h (at 25 °C with 21 % load)
	1812525.02 h (at 40°C with 34.25% load)
	365459.81 h (at 25°C with 100% load)
Voltage drop	0.14 V (at 10 A)
Fail-safe element	15 A DC (per output channel)
Contact switching type	without electrical isolation
ad circuit	
Shutdown time	4 s (with overload 1.1…1.5 x I _N)
	· · · · · · · · · · · · · · · · · · ·
	1 s (with overload 1.5…2.0 x I _N)
	1 s (with overload 1.52.0 x I_N) 0.1 s (with overload 2.03.0 x I_N)
Undervoltage switch-off	0.1 s (with overload 2.03.0 x I_N)
Undervoltage switch-off	0.1 s (with overload 2.03.0 x I_N) \leq 10 ms (For short circuit > 3.0 x I_N)
-	0.1 s (with overload 2.03.0 x I_N) \leq 10 ms (For short circuit > 3.0 x I_N) \leq 8.5 V DC (active)
Undervoltage switch-off Overvoltage switch-off	0.1 s (with overload 2.03.0 x I_N) ≤ 10 ms (For short circuit > 3.0 x I_N) ≤ 8.5 V DC (active) ≥ 9.2 V DC (inactive)
	$0.1 \text{ s (with overload } 2.03.0 \times I_N)$ $\leq 10 \text{ ms (For short circuit } > 3.0 \times I_N)$ $\leq 8.5 \vee DC \text{ (active)}$ $\geq 9.2 \vee DC \text{ (inactive)}$ $\geq 32.5 \vee DC \text{ (active)}$

Connection data

Fuse-protected output	
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section flexible	0.2 mm² 4 mm²
Conductor cross section rigid	0.2 mm ² 4 mm ²
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

Signaling

Channel LED off	off (Channel switched off)
Channel LED yellow	lit (Channel switched on, channel load > 80%)
	flashing (Programming mode active)
	two flashes (Check the installation, no communication to power module)
Channel LED green	lit (Channel switched on)
Channel LED red	lit (Channel switched off, over- or undervoltage active)
	ON temporarily (Channel switched off, 5 s cool-down phase, overload or short-circuit release)



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

	flashing (Channel switched off, ready to be switched back on, overload or short-circuit release)
	two flashes (Channel switched off, system total current limit exceeded)
Channel LED red-yellow	flashing (Channel switched on, overload mode, capacity approximately 110 150%, shutdown after 5 s)
Channel LED red-green	flashing (Channel switched off, programming mode active, current adjustment after overload or short-circuit release)

Dimensions

Dimensional drawing	
Width	12.4 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

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 (10 150 Hz / 10 cycles / axis / X, Y, Z)

Approvals

UL approval

Identification	UL/C-UL Listed UL 508



1115658

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

	-
orrosive gas test	
Identification	ISA S71.04.2013 G3 Harsh Group A
ndards 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 type pluggable onto CAPAROC CR... current rail



1115658

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

Drawings



Dimensional drawing



Product drawing





1115658

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

<image>

Diagram



Max. permissible current in relation to the ambient temperature



1115658

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



Trigger characteristic



1115658

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





1115658

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

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1115658



CUL Listed
 Approval ID: E123528



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

Classifications

ECLASS

	ECLASS-13.0	27140401		
ETIM				
	ETIM 9.0	EC003538		
UNSPSC				
	UNSPSC 21.0	39121400		



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

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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)
SCIP	93998b27-cb53-4fbc-98ab-c831cf83cb3d

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