

2800910

https://www.phoenixcontact.com/us/products/2800910

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.



Electronic circuit breaker, 1-pos., active current limitation, status output and reset input, plug for base element.

Your advantages

- · Individually adjustable with protective plugs
- · Protective plug with fixed nominal current value as protection against unintentional changes
- · Active current limitation to improve the capacity of the upstream power supply
- · Remote reconnection with the reset function
- Increased system transparency with integrated remote message function

Commercial data

Item number	2800910
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA134
Catalog page	Page 383 (C-4-2019)
GTIN	4046356690973
Weight per piece (including packing)	34.3 g
Weight per piece (excluding packing)	34.3 g
Customs tariff number	85362010
Country of origin	DE



2800910

https://www.phoenixcontact.com/us/products/2800910

Technical data

Notes

General	When mounted in rows without convection cooling, the nominal device current should only be led to a maximum of 80% due to the thermal effect during continuous operation (100% operating factor). Special precautionary measures must be taken in systems or machines, to prevent components from restarting (e.g., use of a safety PLC). Parallel connection of multiple circuit breakers is not permitted.
---------	--

Product properties

Туре	Male
Product type	Device circuit breakers
Product family	CB E
Number of positions	1
No. of channels	1
Insulation characteristics	
Degree of pollution	2

Electrical properties

General

Operating voltage	24 V DC
	18 V DC 30 V DC
Nominal current I _N	3 A
Rated surge voltage	0.5 kV
Tripping method	E (electronic)
Required backup fuse	not required, integrated failsafe element
Dielectric strength	max. 30 V DC (Load circuit)
Active current limitation	typ. 1.25 x I _N
Fuse	electronic
Closed circuit current I ₀	typ. 8 mA (When switched on)
	typ. 11 mA (With status output)
Power dissipation	0.62 W (Nominal operation)
Temperature derating	3 A (at 50 °C)
MTBF (IEC 61709, SN 29500)	8320000 h (at 25 °C with 80 % load)
	7410000 h (at 40 °C with 80 % load)
Voltage drop	120 mV (at I _N)
Fail-safe element	6 A DC

Load circuit

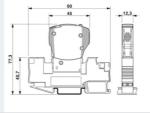
Shutdown time	300 ms (see time/current characteristic curve)
Undervoltage switch-off	< 14 V (typ. OFF)
	> 17 V (typ. ON)



2800910

https://www.phoenixcontact.com/us/products/2800910

Max. capacitive load	20000 μF
Auxiliary contact	
Contact connection type	Positive-switching signal output
Reset	
Input voltage range	7 V DC 30 V DC (Reset with falling edge)
Current consumption	typ. 2.6 mA (at 24 V DC)
Pulse length	min. 20 ms
Voltage	< 3 V DC (Low state)
	> 8 V DC (High state)
Status output	
Output voltage	24 V DC
Output current	max. 0.2 A (Short-circuit-proof)
onnection data	
Connection method	pluggable
mensions	
Dimensional drawing	99 45 12.3



Width	12.3 mm
Height	45 mm
Depth	52 mm
Complete module width	12.3 mm
Complete module height	90 mm
Complete module depth	77.3 mm

Material specifications

Color	gray (RAL 7042)
	black (RAL 9005)
Flammability rating according to UL 94	V-0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP30 (Actuation area)
Ambient temperature (operation)	-25 °C 50 °C (non-condensing)
Ambient temperature (storage/transport)	-40 °C 70 °C
Humidity test	96 h, 95 % RH, 40 °C
Vibration (operation)	3g (according to IEC 60068-2-6, Test Fc)



2800910

https://www.phoenixcontact.com/us/products/2800910

Approvals

Identification	UL Listed UL 508
	UL Recognized UL 2367
Shipbuilding approval	
Identification	DNV GL
andards and regulations Standard designation	EMV
Standard designation	FMV
Standards/specifications	EN 61000-6-3
Standards/specifications	EN 61000-6-3
Standards/specifications Note	EN 61000-6-3 Interference emission
Standards/specifications Note Standard designation	EN 61000-6-3 Interference emission EMV
Standards/specifications Note Standard designation Standards/specifications	EN 61000-6-3 Interference emission EMV EN 61000-6-2



2800910

https://www.phoenixcontact.com/us/products/2800910

Classifications

UNSPSC 21.0

ECLASS

27140401
27140401
27140401
EC003538

39121400



2800910

https://www.phoenixcontact.com/us/products/2800910

Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2024 © - 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