

2800913

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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	2800913
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA134
Catalog page	Page 383 (C-4-2019)
GTIN	4046356691000
Weight per piece (including packing)	36.4 g
Weight per piece (excluding packing)	36.4 g
Customs tariff number	85362010
Country of origin	DE



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Technical data

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
ectrical properties	
Maximum load current	8 A
Maximum current with single arrangement	8 A
General	
Operating voltage	24 V DC
	18 V DC 30 V DC
Nominal current I _N	8 A
Rated insulation voltage U _i	30 V (Load circuit)
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	1.06 W (Nominal operation)
Temperature derating	7.2 A (at 50 °C)
MTBF (IEC 61709, SN 29500)	7200000 h (at 25 °C with 80 % load)
	6330000 h (at 40 °C with 80 % load)
Voltage drop	100 mV (at I _N)
Fail-safe element	15 A DC
Load circuit	
Shutdown time	100 ms (see time/current characteristic curve)
Undervoltage switch-off	< 14 V (typ. OFF)
	> 17 V (typ. ON)
Max. capacitive load	20000 μF
Auxiliary contact	
Contact connection type	Positive-switching signal output



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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)	

Connection data

Maximum load current	8 A
Connection method	pluggable

Dimensions

Width	12.3 mm
Height	45 mm
Depth	52 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
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)

Approvals

UL approval

Identification	UL Listed UL 508
	UL Recognized UL 2367
Shipbuilding approval	
Identification	DNV GL

Standards and regulations

Standard designation	EMV
Standards/specifications	EN 61000-6-3



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Note	Interference emission
Standard designation	EMV
Standards/specifications	EN 61000-6-2
Note	Noise immunity
Mounting	TOOS IIIIII AIIII

M

	Mounting type	on base element	



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Classifications

ECLASS

	ECLASS-11.0	27140401	
	ECLASS-12.0	27140401	
	ECLASS-13.0	27140401	
ETIM			
	ETIM 9.0	EC003538	
UNSPSC			
	UNSPSC 21.0	39121400	



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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"

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