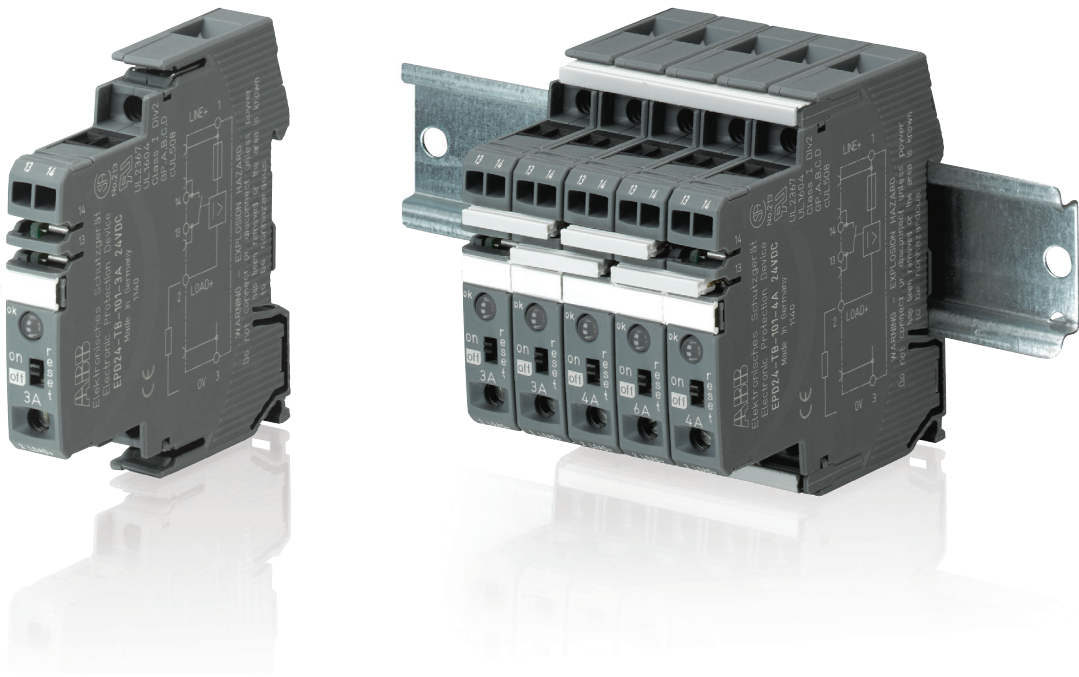


Electronic Protection Device EPD24-TB-101

For use on the load side of 24 V DC switch mode power supplies



Description

The protection devices EPD24 extend the ABB product range of Modular DIN Rail Components by electronic overcurrent protection modules for selective protection of 24 V DC load circuits. This protection is achieved by a combination of active electronic current limitation in the case of a short circuit and an overload deactivation from 1.1 x IN upwards.

If a fault occurs in a load circuit, the protection device EPD24 will detect this rapidly and reliably, disable the power output transistor and hence interrupt the current flow in the defective circuit. The maximum possible overcurrent is always limited to 1.3...1.8 times the selected rated current. An activation of capacitive loads up to 20,000 µF is possible, deactivation only occurring in the case of overloads or short circuits. Selective deactivation of the defective current circuit means undefined error states and a complete system stop are prevented.

Features

- Selective load protection, one electronic tripping characteristic
- Active current limitation for safe connection of capacitive loads up to 20,000 µF and on overload/short circuit
- Current ratings 0.5 A...12 A
- Reliable overload disconnection with 1.1 x IN plus
- Manual ON/OFF button
- Clear status and failure indication through LED and integrated auxiliary contact
- Integral fail-safe element adjusted to current rating
- Width per unit only 12.5 mm
- Rail mounting
- Easy wiring through busbar LINE+ and 0 V as well as signal bars
- UL- and CSA-approvals allow international use of the devices

Approvals

Authority	Voltage rating	Current ratings
UL 2367	24 V DC	0.5...12 A
UL 1604 (class I, div. 2, groups A, B, C, D)	24 V DC	0.5...12 A
UL 508	24 V DC	0.5...12 A
CSA C22.2 No. 213 (class I, division 2)	24 V DC	0.5...12 A
CSA C22.2 No. 142	24 V DC	0.5...12 A
CSA C22.2 No. 14	24 V DC	0.5...12 A

EPD24

Ordering information

Electronic protection devices			
Rated current I_N A	Weight 1 piece in kg	Packing unit	Catalog number
0.5	0.065	4	EPD24-TB-101-0.5A
1	0.065	4	EPD24-TB-101-1A
2	0.065	4	EPD24-TB-101-2A
3	0.065	4	EPD24-TB-101-3A
4	0.065	4	EPD24-TB-101-4A
6	0.065	4	EPD24-TB-101-6A
8	0.065	4	EPD24-TB-101-8A
10	0.065	4	EPD24-TB-101-10A
12	0.065	4	EPD24-TB-101-12A

Accessories			
	Catalog number	Weight 1 piece in kg	Packing unit
Busbars for LINE+ and 0 V, grey insulation, length 500 mm ¹⁾	EPD-BB500	0.20	10
Signal bars for auxiliary contacts, grey insulation, length 21 mm	EPD-SB21	0.04	10

¹⁾ Ampacity at one line entry I_{max} = 50 A (Recommendation: mid line entry)
 Ampacity at two line entries I_{max} = 63 A

