



PRODUCT-DETAILS

# EPD24-E4 1-10

## EPD 24VDC Entry 4 Channel 1A-10A Electronic protection device 24VDC



General Information	
Extended Product Type	EPD24-E4 1-10
Product ID	2CDE601102R0110
EAN	4053546053135
Catalog Description	EPD 24VDC Entry 4 Channel 1A-10A Electronic protection device 24VDC
Long Description	The EPD24 protection devices expand ABB's product portfolio of DIN rail mounted devices with electronic overcurrent protection modules for selective protection of 24 V DC load circuits. Faults in individual branches caused by overload or short circuit are detected and selectively switched off so that other load current paths remain unaffected by the fault. In this way straightforward, quick troubleshooting is made possible.

Technical	
Output Signal	Group signal output 13-14; Operating condition: 13; Potential-free normally open contact max. 30 V DC/200 mA, min. 10 V DC/1 mA.
Number of Auxiliary Contacts NO	1
Number of Channels	4
Signal Indication Fault (LED)	Red

Fault Reset	Manual Remote
Status Indicator	Yes
Additional Information	Backup fuse for EPD24 not required
Recommended Screw Driver	Screw Slot
Accessories Available	Yes
Output	Power MOSFET switching output (positive switching) without galvanic isolation
Remarks	Parallel connection of outputs not permissible
Electromagnetic Compatibility (EMC)	Emission - Class B Immunity - Class A
Wire Stripping Length	Auxiliary Circuit 8 mm For N Terminals 8 mm Input Circuit 18 mm Output Circuit 10 mm
Delay Time for Switching On	Cascaded After Power on with 24 VDC Channel 1 100 ms Cascaded After Power on with 24 VDC Channel 2 200 ms Cascaded After Power on with 24 VDC Channel 3 300 ms Cascaded After Power on with 24 VDC Channel 4 400 ms 96 hrs/95% RH/40 °C
Operational Derating	Derating 60 °C ... 70 °C: 2 %/K per channel output
Rated Current According to Temperature	9AKK108468A1268
Undervoltage Trip Device	Hysteresis typ. 2 V OFF at typ. U <sub>in</sub> < 16 V DC ON at typ. U <sub>in</sub> > 19 V DC
Signal Indication Load Circuit > 80 %	Green / Orange

## Electrical

Tripping Characteristic	Electronic Time Controlled
Rated Voltage (U <sub>r</sub> )	24 V DC
Rated Insulation Voltage (U <sub>i</sub> )	Output Circuit 30 V DC
Output Voltage (U <sub>out</sub> )	typ. per 1 A: 0.012 V
Current Range	1 A 2 A 3 A 4 A 5 A 6 A 8 A 10 A 7 A 9 A
Power Loss	at Rated Load 5.6 W

## Design

Housing Material	Moulded
RAL Number	RAL 7012 - Basalt Grey
Color	dark grey

## Technical UL/CSA

Connecting Capacity	Flexible 24-16 AWG
Auxiliary Circuit UL/CSA	Rigid 24-16 AWG

**Material Compliance**

RoHS Declaration	9AKK107492A1906
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20230404
REACH Declaration	9AKK107492A1906
REACH Information	False - does not contain substances > 0.1 mass percentage
REACH Date	20240821
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer

**Environmental**

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +70 °C
Degree of Protection	IP20
Protection Class	Grounded or Insulated (Class III)
Pollution Degree	2
Resistance to Vibrations	20 Cycles with Load 0.8 In: 2g 10 ... 500 ... 10 Hz

**Dimensions**

Product Net Width	25 mm
Product Net Height	130 mm
Product Net Depth / Length	108 mm
Product Net Weight	0.175 kg
Dimension Diagram	9AKK108467A0009

**Engineering**

EPLAN Data	9AAC171943_EPLAN
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**Ordering**

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	0.303 kg

**Certificates and Declarations**

CSA Certificate	9AKK108468A2242
cULus Certificate	9AKK108468A2242
cUR Certificate	9AKK108467A1167
Declaration of Conformity - CE	9AKK108467A7547
Declaration of Conformity - UKCA	9AKK108468A0011

### Installation

Instructions and Manuals	9AKK108467A7088
Mounting on DIN Rail	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting Position	vertical

### Popular Downloads

Data Sheet, Technical Information	9AKK108467A7088
Time-Current Characteristic Curve	9AKK108467A8028

### External Classifications and Standards

ETIM 9	EC003538 - Device circuit breaker
ETIM 10	EC003538 - Device circuit breaker
UNSPSC	39121601
eClass	V11.0 : 27141901
IDEA Granular Category Code (IGCC)	4813 >> Circuit breakers
Object Classification Code	F
Standards	CSA 22.2 UL 2367 recognized UL 508 listed
Certification Agency	CSA UL
Standardization Body	UL CSA

### Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CDE605300R0010	EPD24 jumpers (1 set)	EPD24 Jumper for LINE and signal 1 Set	4	piece
2CDE605300R0050	EPD24 jumpers (5 set)	EPD24 Jumper for LINE and signal 5 Set	20	piece
2CDE605300R0250	EPD24 jumpers (25 set)	EPD24 Jumper for LINE and signal 25 Set	100	piece

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## Categories

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Low Voltage Products and Systems → Modular DIN Rail Products → Protection and Safety Devices → Protection Devices for DC Load Circuits

