

PRODUCT-DETAILS

# EPD24-E4 1-10

## EPD24-E4 1-10 Entry electronic protection devices for 24V DC load circuits



### Informations générales

Extension du type de produit	EPD24-E4 1-10
Code de produit	2CDE601102R0110
EAN	4053546053135
Description courte	EPD24-E4 1-10 Entry electronic protection devices for 24V DC load circuits
Description longue	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.

### Technique

Normes et standards	CSA 22.2 UL 2367 recognized UL 508 listed
Tripping Characteristic	Electronic Time Controlled
Tension nominale ( $U_r$ )	24 V DC
Tension assignée d'isolement ( $U_i$ )	Output Circuit 30 V DC

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
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
Qualité du matériau	Moulded
Fault Reset	Manual Remote
Status Indicator	Oui
Additional Information	Backup fuse for EPD24 not required
Montage sur rail DIN	TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Type d'encastrement	vertical only
Recommended Screw Driver	Screw Slot
Accessories Available	Oui
Sortie	Power MOSFET switching output (positive switching) without galvanic isolation
Remarques	Parallel connection of outputs not permissible
RAL Number	RAL 7012 - Gris basalte
Couleur	dark grey
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. $U_{in} < 16 \text{ V DC}$ ON at typ. $U_{in} > 19 \text{ V DC}$
Signal Indication Load Circuit > 80 %	Green / Orange

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## Material Compliance

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Informations RoHS	9AKK107492A1906
Statut RoHS	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Date RoHS	20230404
REACH Declaration	9AKK108468A9644
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

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## Environnement

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Température de l'air ambiant	Operation -25 ... +70 °C Storage -40 ... +70 °C
Indice de protection	IP20
Classe de protection	Grounded or Insulated (Class III)
Degré de pollution	2
Resistance to Vibrations	20 Cycles with Load 0.8 In: 2g 10 ... 500 ... 10 Hz

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## Technique UL/CSA

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

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## Dimensions

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Produit Largeur Net	25 mm
Produit Hauteur Net	130 mm
Produit Longueur Net	108 mm
Poids net	0.175 kg
Schéma dimensionnel	9AKK108467A0009

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## Commande

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Emballage Niveau 1 Unités	box 1 pièce
Emballage Niveau 1 Poids	0.303 kg

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## Certificats et Déclarations (Numéro de document)

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Agence de certification	CSA UL
Certificat CSA	9AKK108468A2242
Certificat ecULus	9AKK108468A2242
cUR Certificate	9AKK108467A1167
Déclaration de Conformité - CE	9AKK108467A7547

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Declaration of Conformity  
- UKCA

9AKK108468A0011

## Installation

Instructions et manuels

9AKK108467A7088

## Downloads Préférés

Fiche produit, informations  
techniques

9AKK108467A7088

Time-Current  
Characteristic Curve

9AKK108467A8028

## Classifications

ETIM 8

EC003538 - Device circuit breaker

ETIM 9

EC003538 - Device circuit breaker

Catégorie DEEE

5. Small Equipment (No External Dimension More Than 50 cm)

WEEE B2C / B2B

Business To Consumer

CN8

8536 30 10

UNSPSC

39121601

eClass

V11.0 : 27141901

Code de classification  
d'objet

F

## Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CDE605300R0010	EPD24 jumpers (1 set)	EPD24 jumpers (1 set) 1 power jumper for 24 V DC and 3 signal jumpers for 0 V, signal and reset	4	piece
2CDE605300R0050	EPD24 jumpers (5 set)	EPD24 jumpers (5 set) 5 power jumpers for 24 V DC and 15 signal jumpers for 0 V, signal and reset	20	piece
2CDE605300R0250	EPD24 jumpers (25 set)	EPD24 jumpers (25 set) 25 power jumpers for 24 V DC and 75 signal jumpers for 0 V, signal and reset	100	piece

### Catégories

Produits basse tension → Appareillage modulaire et parafoudres → Protection and Safety Devices → Appareil de protection électronique



