

Electronic device circuit breaker - EC-E 2A DC24V - 0903043

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Electronic circuit breaker, 1 reset input, nominal current: 2 A

Why buy this product

- Selective protection of all 24 V DC load circuits at switched-mode power supply units
- A combination of active electronic current limitation in the event of short circuit and overload shutdown ensures that the circuit breaker can respond to overloads faster than the switched-mode power supply unit
- The residual current is always limited to 1.3 - 1.8 times the nominal current

Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 6 STK |
| GTIN | |
| GTIN | 4046356466899 |

Technical data

General

| | |
|--|--|
| Installation instructions | 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. |
| Mounting type | DIN rail: 35 mm |
| Color | black |
| Flammability rating according to UL 94 | V0 |

Electrical data

| | |
|---------------------|------------------|
| Fuse | electronic |
| Fuse type | Automatic device |
| Rated surge voltage | 0.5 kV |
| Operating voltage | 24 V DC |

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Technical data

Electrical data

| | |
|---|---|
| | 18 V DC ... 32 V DC |
| Nominal current I _N | 2 A |
| Required backup fuse | not required, integrated failsafe element |
| Dielectric strength | max. 32 V DC (Load circuit) |
| Degree of pollution | 2 |
| Switching capacity I _{CN} | Active current limitation |
| Closed-circuit current range I ₀ | typ. 25 mA ±5 mA (When switched on) |

Dimensions

| | |
|------------------|---------|
| Height | 83 mm |
| Width | 12.5 mm |
| Depth | 80 mm |
| Height NS 35/7,5 | 83 mm |
| Height NS 35/15 | 90.5 mm |

Ambient conditions

| | |
|---------------------------------|---------------------------------|
| Degree of protection | IP20 (Housing) |
| Ambient temperature (operation) | 0 °C ... 50 °C (non-condensing) |

Connection data

| | |
|---|---------------------|
| Conductor cross section solid min. | 0.5 mm ² |
| Conductor cross section solid max. | 16 mm ² |
| Conductor cross section flexible min. | 0.5 mm ² |
| Conductor cross section flexible max. | 16 mm ² |
| Conductor cross section AWG min. | 26 |
| Conductor cross section AWG max. | 6 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 10 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 10 mm ² |
| 2 conductors with same cross section, solid min. | 0.5 mm ² |
| 2 conductors with same cross section, solid max. | 4 mm ² |
| 2 conductors with same cross section, stranded min. | 0.5 mm ² |
| 2 conductors with same cross section, stranded max. | 4 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.5 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 2.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 6 mm ² |
| Connection method | Screw connection |
| Stripping length | 10 mm |

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Technical data

Connection data

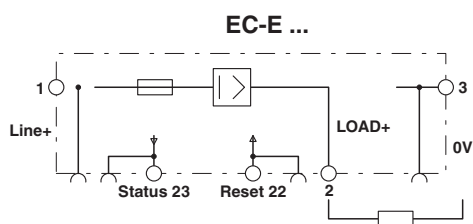
| | |
|-----------------------|--------|
| Screw thread | M4 |
| Tightening torque max | 1.2 Nm |

Standards and Regulations

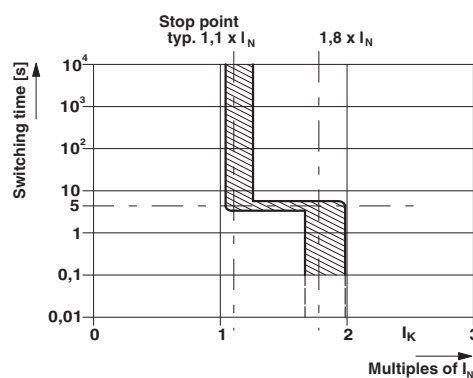
| | |
|--------------------------|------------------|
| Standards/specifications | UL 508 |
| | CSA 22.2 No. 14 |
| | UL 2367 |
| | CSA 22.2 No. 142 |
| | CSA 22.2 No. 213 |
| | UL 1604 |

Drawings

Circuit diagram



Diagram



Trigger characteristic

Approvals

Approvals

Approvals

EAC / EAC / UL Listed / cUL Listed / GL / cULus Listed

Ex Approvals

CSA / UL Recognized

Approval details

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Approvals

| | | |
|-----|--|-------------------------|
| EAC | | RU C- DE.A*30.B01546 |
|-----|--|-------------------------|

| | | |
|-----|--|---------------|
| EAC | | EAC-Zulassung |
|-----|--|---------------|

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
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| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140324 |
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| | | | |
|----|--|---|-------------|
| GL | | http://exchange.dnv.com/tari/ | 14505-15 HH |
|----|--|---|-------------|

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| cULus Listed | | | |
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