

2800860

https://www.phoenixcontact.com/au/products/2800860

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Thermal-magnetic device circuit breaker, 1-pos., tripping characteristic F1 (fast-blow), 1 changeover contact, plug for base element.

Your advantages

- · Individually adjustable with protective plugs
- · Fast tripping in the event of an error with the aid of the F1 characteristic curve
- · Protective plug with fixed nominal current value as protection against unintentional changes
- · Increased safety with electrical isolation in the event of errors

Commercial data

| Item number | 2800860 |
|--------------------------------------|---------------------|
| Packing unit | 1 рс |
| Minimum order quantity | 1 pc |
| Sales key | CLA124 |
| Product key | CLA124 |
| Catalog page | Page 393 (C-4-2019) |
| GTIN | 4046356690201 |
| Weight per piece (including packing) | 44.9 g |
| Weight per piece (excluding packing) | 42.4 g |
| Customs tariff number | 85362010 |
| Country of origin | DE |



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Technical data

Notes

| General | When mounted in rows, the nominal device current can be limited to just 80% or must be overdimensioned accordingly. |
|--|---|
| Product properties | |
| Product type | Thermomagnetic device circuit breakers |
| Product family | CB TM |
| Туре | Male |
| Number of positions | 1 |
| No. of channels | 1 |
| Insulation characteristics | |
| Degree of pollution | 2 |
| Electrical properties | |
| Fuse type | Automatic device |
| General | |
| Rated voltage | 50 V DC (IEC 60934) |
| | 50 V DC (UL 1077) |
| | 50 V DC (UL 508 - with plug-in base) |
| Rated insulation voltage U _i | 277 V AC (UL 1077) |
| | 250 V AC (IEC 60934) |
| Rated current I _N | 3 A (IEC 60934) |
| | inductive load according to UL 1077 |
| | 3 A DC (low-induction load according to UL 1077) |
| | 3 A DC (inductive load according to UL 508 - with plug-in base) |
| | 3 A DC (low-induction load according to UL 508 - with plug-in base) |
| Rated surge voltage | 2.5 kV (Increased insulation in actuation area) |
| Insulation resistance R _{iso} | > 100 MΩ (500 V DC) |
| Auxiliary circuit | 277 V AC / 0.5 A (Low-induction) |
| | 277 V AC / 1 A (Low-induction, maximum of 2000 cycles) |
| | 50 V DC / 1 A (Low-induction) |
| Type of actuation | S type |
| Tripping method | TM (thermal-magnetic) |
| Tripping level | Trip-free mechanism (positive) |
| Device resistance | 140 mΩ |
| Switch-on delay | typ. 2 ms |
| Required backup fuse | 15 A (I > I _{cn}) |
| Rated short-circuit switching capacity I _{cn} | 600 A (50 V DC) |
| Short-circuit switching capacity | 1000 A AC (277 V AC) |
| | 1000 A DC (50 V DC) |



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| 3000 V AC (Actuation area) | |
|---|--|
| 3000 V AC (Actuation area) | |
| 1500 V AC (Main to auxiliary circuit) | |
| 1500 V AC (Open main circuit) | |
| 1000 V AC (Open auxiliary circuit) | |
| 6000 (at 1 x I _n) | |
| F1 (fast blow) | |
| 1.26 W (in nominal operation per channel) | |
| 0.42 V (at 1 x I _n) | |
| 1 changeover contact | |
| Auxiliary contact | |
| | |
| 10 V | |
| 240 V | |
| 240 V | |
| 10 mA | |
| 1 A | |
| | |

Connection data

| Connection method | pluggable |
|-------------------|-----------|
| Connection method | pluggable |

Dimensions

| Dimensional drawing | |
|------------------------|---------|
| Width | 12.3 mm |
| Height | 45 mm |
| Depth | 52 mm |
| Complete module width | 12.3 mm |
| Complete module height | 90 mm |
| Complete module depth | 77.3 mm |

Material specifications

| Color | gray (RAL 7042) |
|--|------------------|
| | black (RAL 9005) |
| Flammability rating according to UL 94 | V-0 |
| Insulating material group | II |

Mechanical properties

| Open side panel No | |
|--------------------|--|
|--------------------|--|



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Environmental and real-life conditions

| Ambient | conditions |
|---------|-------------|
| Ambient | contaitions |

| Degree of protection | IP30 (Actuation area) |
|---|--|
| Ambient temperature (operation) | -30 °C 60 °C |
| Ambient temperature (storage/transport) | -40 °C 80 °C |
| Humidity test | 240 h, 95 % RH, 40 °C |
| Shock (operation) | 15g (According to IEC 60068-2-27, Test Ea) |
| Vibration (operation) | 5g (in accordance with IEC 60068-2-6, Test Fc) |

Approvals

| UL approval | |
|---------------------------|------------------------------|
| Identification | UL Listed UL 508 |
| | UL/C-UL Recognized UL 1077 |
| CSA | |
| Identification | CSA CAN/CSA-C22.2 No. 235-04 |
| Shipbuilding approval | |
| Identification | DNV GL |
| Standards and regulations | |
| Standards/specifications | EN 60934 |
| Mounting | |
| Mounting type | on base element |



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Drawings



The figure shows the complete module consisting of a base element and connector





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Trigger characteristic in the DC range



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2800860

| . FA | CUL Recognized Approval ID: FILE E 140459 |
|-------------|---|
| | |
| 91 | UL Recognized Approval ID: FILE E 140459 |
| | |
| ERC | EAC Approval ID: EAC-Zulassung |
| | |
| | DNV GL Approval ID: TAE00003C7 |
| | |
| ERC | EAC Approval ID: RU C-DE.*09.B.00169 |
| | |
| | VDE approval of drawings Approval ID: 40034683 |
| | |
| | UL Listed Approval ID: FILE E 172140 |
| | |
| | CCC Approval ID: 2025010307749779 |
| | |
| @ : | CSA Approval ID: 2786957 |
| | |
| <u>®</u> | CUL Listed Approval ID: FILE E 172140 |
| | |
| | KC Approval ID: SW05012-15003 |
| | |



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UAE-RoHS Approval ID: 22-09-50937

cULus Recognized

cULus Listed



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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

EU RoHS

| Fulfills EU RoHS substance requirements | Yes, No exemptions | | | |
|---|--|--|--|--|
| China RoHS | | | | |
| Environment friendly use period (EFUP) | EFUP-E | | | |
| | No hazardous substances above the limits | | | |
| EU REACH SVHC | | | | |
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% | | | |

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