

POT-UW 10 - Sealing plate

3074059

<https://www.phoenixcontact.com/us/products/3074059>

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10 mm²



SCREW



Mounting material, color: gray

The figure shows a version of the article

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Tool-free snap-in principle enables easy mounting on the device panel
- Automatic panel thickness compensation enables universal use
- Reliable seal even with low-viscosity molding compounds

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 3074059 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Note | Made to order (non-returnable) |
| Product key | AA1ZAA |
| GTIN | 4046356344838 |
| Weight per piece (including packing) | 1.436 g |
| Weight per piece (excluding packing) | 0.865 g |
| Country of origin | CN |

Technical data

Notes

Safety note

| | |
|-------------|---|
| Safety note | <ul style="list-style-type: none"> • Only electrically qualified personnel may install and operate the product. To recognize and prevent danger, the qualified personnel must be familiar with the basics of electrical engineering. • Observe the technical data provided here and refer to the documents listed under "Downloads". The download area contains important information, such as installation notes, technical drawings, and 3D data. • The cable entry funnel is not safe to touch. Never connect or disconnect the terminal when it is energized. Take appropriate steps to ensure touch protection. • To maintain the nominal voltage, cast the terminals on the inside. |
|-------------|---|

Product properties

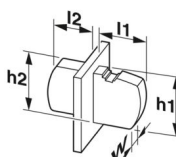
| | |
|----------------|-------------------|
| Product type | Mounting material |
| Product family | Seals |

Electrical properties

Properties

| | |
|-----------------------------|-------|
| Nominal current I_N | 57 A |
| Nominal voltage U_N | 400 V |
| Rated voltage (III/3) | 400 V |
| Rated surge voltage (III/3) | 5 kV |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Pitch | 10.1 mm 10.1 mm |

Material specifications

Material data - contact

| | |
|-------------------------|--|
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
| Contact material | Cu alloy |
| Surface characteristics | tin-plated |

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Material data - housing

| | |
|---|-------------|
| Color (Housing) | gray (7042) |
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |
| Glow wire flammability index GWFI according to EN 60695-2-12 | 850 |
| Glow wire ignition temperature GWIT according to EN 60695-2-13 | 775 |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

Connector

Connection 1

| | |
|----------------------------|-----|
| Insulating material | PA |
| CTI according to IEC 60112 | 600 |

Electrical tests

Temperature-rise test

| | |
|-----------------------------------|-------------------------------------|
| Specification | IEC 60947-7-1:2009-04 |
| Requirement temperature-rise test | Increase in temperature \leq 45 K |

Short-time withstand current

| | |
|---------------|-----------------------|
| Specification | IEC 60947-7-1:2009-04 |
|---------------|-----------------------|

Air clearances and creepage distances | 1. Insulation coordination

| | |
|--|-----------------------|
| Application | without spacer plate |
| Specification | IEC 60947-7-1:2009-04 |
| Insulating material group | I |
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 400 V |
| Rated surge voltage (III/3) | 5 kV |
| minimum clearance value - non-homogenous field (III/3) | 3 mm |
| minimum creepage distance (III/3) | 5 mm |

Air clearances and creepage distances | 2. Insulation coordination

| | |
|--|-----------------------|
| Application | with spacer plate |
| Specification | IEC 60947-7-1:2009-04 |
| Insulating material group | I |
| Comparative tracking index (IEC 60112) | CTI 600 |
| Rated insulation voltage (III/3) | 500 V |
| Rated surge voltage (III/3) | 6 kV |
| minimum clearance value - non-homogenous field (III/3) | 5.5 mm |
| minimum creepage distance (III/3) | 6.3 mm |

Mechanical tests

Test for conductor damage and slackening

| | |
|---------------|-----------------------|
| Specification | IEC 60947-7-1:2009-04 |
| Result | Test passed |

Pull-out test

| | |
|---|---|
| Specification | IEC 60947-7-1:2009-04 |
| Conductor cross-section/conductor type/tractive force setpoint/actual value | 0.5 mm ² / solid / > 20 N |
| | 0.5 mm ² / flexible / > 20 N |
| | 16 mm ² / stranded / > 100 N |
| | 10 mm ² / flexible / > 90 N |

Environmental and real-life conditions

Vibration test

| | |
|------------------------|-----------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 Hz ... 60.1 Hz) |
| Acceleration | 5g (60.1 Hz ... 150 Hz) |
| Test duration per axis | 2.5 h |
| Test directions | X-, Y- and Z-axis |

Shocks

| | |
|-----------------|-----------------------------------|
| Specification | IEC 60068-2-27:2008-02 |
| Pulse shape | Semi-sinusoidal |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

Glow-wire test

| | |
|------------------|------------------------|
| Specification | IEC 60695-2-11:2014-02 |
| Temperature | 960 °C |
| Time of exposure | 30 s |

Ambient conditions

| | |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -40 °C ... 105 °C (Depending on the current carrying capacity/derating curve) |

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| | |
|---|---|
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| | |
|---------------------------------------|------------------|
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |

Mounting

| | |
|-----------------|-------------|
| Panel thickness | 1 mm...4 mm |
|-----------------|-------------|

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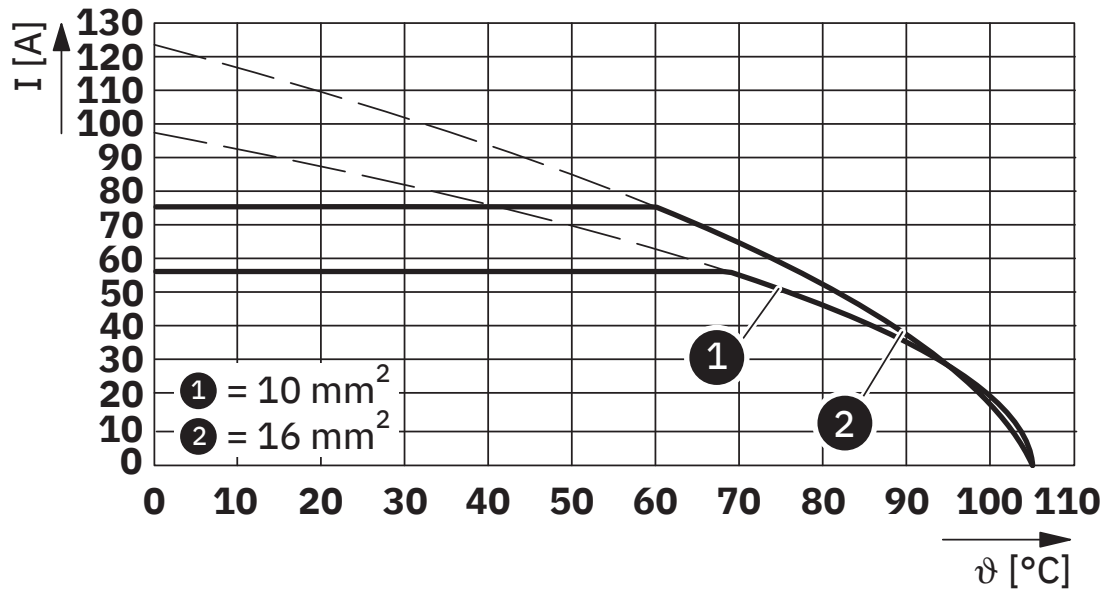
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Drawings

Diagram



Type: UW 10-POT

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27460405 |
| ECLASS-15.0 | 27460405 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002943 |
|-----------|----------|

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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