

SACC-CI-M12MST-4CON-L180 THR - Contact carrier



1406396

<https://www.phoenixcontact.com/us/products/1406396>

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Contact carrier, Power, 4-position, Pin, straight, M12, T-coding, THR solder connection, this item is expected to be lead-free from Q4 2025 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Your advantages

- For compact devices: transmit high power in a confined space
- Reduced mounting costs thanks to two-piece device connector
- All common pin assignments and codings available
- Easy device integration thanks to mechanical port screw connections with threaded attachment, press-in contour or direct integration in the front plate
- Additional gasket for the device when not plugged in
- Packaging available for automated pick and place assembly

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1406396 |
| Packing unit | 60 pc |
| Minimum order quantity | 60 pc |
| Sales key | AB23 |
| Product key | ABQAGO |
| GTIN | 4046356804370 |
| Weight per piece (including packing) | 5.635 g |
| Weight per piece (excluding packing) | 3.204 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

Technical data

Notes

| | |
|--------------------|--|
| Notes on operation | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
|--------------------|--|

Product properties

| | |
|-----------------------|----------------|
| Product type | Contact insert |
| Application | Power |
| Sensor type | Power |
| Number of positions | 4 |
| No. of power contacts | 4 |
| Seal present | yes |
| Shielded | no |
| Coding | T |
| Thread type | M12 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

| | |
|-----------------------|----------------------------|
| Rated surge voltage | 1.5 kV |
| Contact resistance | $\leq 3 \text{ m}\Omega$ |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 63 V |
| Nominal current I_N | 12 A |

Connection data

| | |
|-------------------|-----------------------|
| Connection method | THR solder connection |
|-------------------|-----------------------|

Interfaces

| | |
|----------------------|-------|
| Signal type/category | Power |
|----------------------|-------|

Material specifications

| | |
|--|-------|
| Material Contact carrier | PA 4T |
| Material Contact | CuZn |
| Material Contact surface | Au |
| Material Seal | FKM |
| Flammability rating according to UL 94 | V0 |

Connector

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Connection 1

| | |
|-------------------|----------|
| Head design | Pin |
| Head cable outlet | straight |
| Head thread type | M12 |
| Coding | T |

Cable/line

| | |
|----------------------|-------|
| Signal type/category | Power |
|----------------------|-------|

Mechanical properties

Mechanical data

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

Environmental and real-life conditions

Ambient conditions

| | |
|---|--|
| Degree of protection | IP67 (correctly plugged in and locked) |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 105 °C |
| | -40 °C ... 105 °C (without mechanical actuation) |
| UL Type Rating | Type 4 (indoor use only) |

Packaging specifications

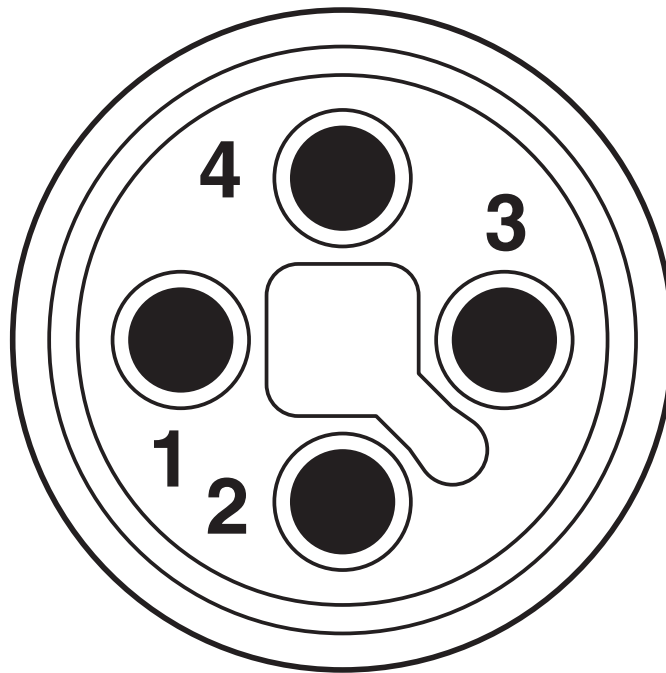
| | |
|-------------------|------|
| Type of packaging | Tray |
|-------------------|------|

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Drawings

Schematic diagram



Connector pin assignment of M12 plug, 4-pos., T-coded, view of pin side

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1406396>

| | | | | |
|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  cUL Recognized Approval ID: E468743-20190917 | | | | |
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| keine | | | | |
| | 63 V | 12 A | 16 | - |

| | | | | |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  UL Recognized Approval ID: E468743-20190917 | | | | |
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| keine | | | | |
| | 63 V | 12 A | 16 | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440223 |
| ECLASS-15.0 | 27440223 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC003557 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 4e17a367-c9f6-439f-91bd-5713d1141c19 |

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