

SACC-M12MSS-2PECON-PG 9-M - Power connector



1419639

<https://www.phoenixcontact.com/no/products/1419639>

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Power connector, 3-position, Plug straight M12, coding: S, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm, for alternating current up to 16 A/630 V, Contact 4 leading

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Screw connection: proven connection technology for a large selection of different conductors
- High-performance: AC connectors for up to 16 A and 630 V AC
- Protection against incorrect connection using special S-coding

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1419639 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | 31BBFS |
| Product key | BF2CAB |
| Catalog page | Page 279 (C-2-2019) |
| GTIN | 4055626181776 |
| Weight per piece (including packing) | 22.59 g |
| Weight per piece (excluding packing) | 22.59 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

Technical data

Notes

| | |
|---------|--|
| General | Strip 21 mm off the cable sheath, strip 6 mm off the conductor insulation, crimp the ferrule, then shorten this to 5 mm. Conductor length with shortened ferrule: 20 mm. Connect conductors and tighten the mounting screws with 0.2 Nm. |
| General | NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |


Product properties

| | |
|----------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Number of positions | 3 |
| Application | Power supply |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | S |
| | S |
| Cable outlet | straight |
| Pg screw connection | Pg9 |

Insulation characteristics

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

Dimensions

| | |
|------------------------|--|
| Dimensional drawing |  |
| Length | 60 mm |
| Wrench size, union nut | 16 mm |

External dimensions

| | |
|------------------|---------------|
| Outside diameter | 6 mm ... 8 mm |
|------------------|---------------|

Housing

| | |
|------------------|-------|
| Diameter housing | 20 mm |
|------------------|-------|

Material specifications

| | |
|--|-----|
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR |
| Material of grip body | PA |

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| | |
|-------------------------------|------------------------------|
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA |
| Material for screw connection | Zinc die-cast, nickel-plated |

Connection data

Conductor connection

| | |
|---|--|
| Connection method | Screw connection |
| Connection cross section | 0.75 mm ² ... 1.5 mm ² (with ferrule) |
| | 0.75 mm ² ... 2.5 mm ² (solid) |
| Connection cross section AWG | 18 ... 16 (with ferrule) |
| Stripping length of the individual wire | 5 mm |
| Tightening torque | 0.4 Nm (M12 knurl) |
| | 0.8 Nm ... 1 Nm (Pressure screw with sleeve housing) |
| | 0.4 Nm (Screw plug insert with sleeve housing as far it will go) |
| | 0.2 Nm (Screw terminal blocks) |

Electrical properties

| | |
|--------------------------------|--|
| Rated surge voltage | 6 kV |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | > 10 GΩ |
| Nominal voltage U _N | 630 V AC |
| Nominal current I _N | 16 A (when using 2.5 mm ² conductors) |
| | 16 A (at 40 °C) |

Mechanical properties

Mechanical data

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

Connector

Connection 1

| | |
|-------------------|----------|
| Head design | Plug |
| Head cable outlet | straight |
| Head thread type | M12 |
| Coding | S |

Cable/line

| | |
|---|------|
| Stripping length of the individual wire | 5 mm |
|---|------|

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Degree of protection | IP67 |
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |

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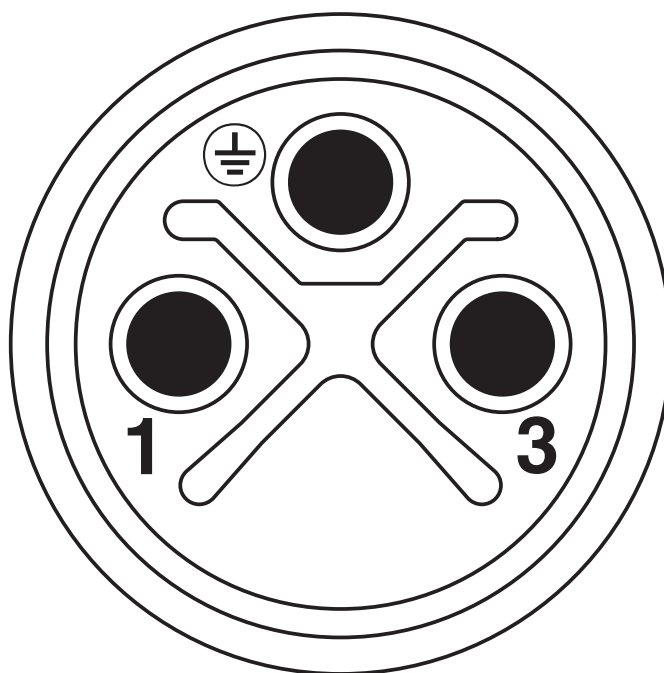
Standards and regulations

M12

| | |
|--------------------------|-----------------|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-111 |

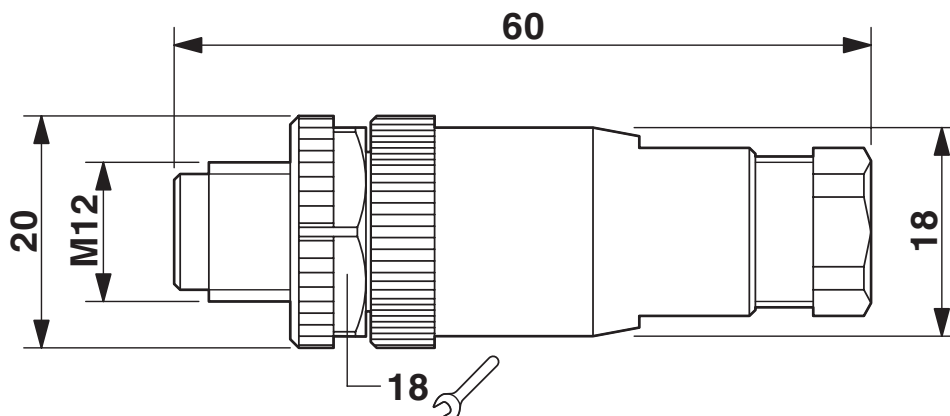
Drawings

Schematic diagram



Pin assignment of M12 plug, 3-pos., S-coded, view of pin side

Dimensional drawing



Plug, M12 x 1, straight

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1419639>

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|---|-----------------------|-----------------------|-------------------|-----------------------------|
|  cUL Recognized Approval ID: FILE E 221474 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 600 V | 16 A | - 14 | - |

| | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  UL Recognized Approval ID: FILE E 221474 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 600 V | 16 A | - 14 | - |

| | | | | |
|--|--|--|--|--|
|  EAC Approval ID: RU C-DE.BL08.B.00511 | | | | |
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| cULus Recognized | | | | |
|-------------------------|--|--|--|--|

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002635 |
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UNSPSC

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

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Environmental product compliance

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|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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PHOENIX CONTACT AS
Strømsveien 344
N-1081 Oslo
+47 22 07 68 00
norge@phoenixcontact.com