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|---------------------|---|
| Product description | Contacts: 6 DIN, female cable connector with solder eye, shieldable, cable outlet 4 - 6 mm, silver plated contacts |
| Area | M16 IP40 Series 581 |
| Order number | 99 2022 00 06 |

| Illustration | Scale drawing | Contact arrangement | | | | | | | | | | | | | | | | | | | | | |
|--------------|---------------|---|--|---|---|---|-------|-------|---|-------|------|---|------|------|---|------|------|---|------|-------|---|------|------|
| | | <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>X</th> <th>Y</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-3,03</td> <td>-1,75</td> </tr> <tr> <td>2</td> <td>-3,03</td> <td>1,75</td> </tr> <tr> <td>3</td> <td>0,00</td> <td>3,50</td> </tr> <tr> <td>4</td> <td>3,03</td> <td>1,75</td> </tr> <tr> <td>5</td> <td>3,03</td> <td>-1,75</td> </tr> <tr> <td>6</td> <td>0,00</td> <td>0,00</td> </tr> </tbody> </table> | | X | Y | 1 | -3,03 | -1,75 | 2 | -3,03 | 1,75 | 3 | 0,00 | 3,50 | 4 | 3,03 | 1,75 | 5 | 3,03 | -1,75 | 6 | 0,00 | 0,00 |
| | X | Y | | | | | | | | | | | | | | | | | | | | | |
| 1 | -3,03 | -1,75 | | | | | | | | | | | | | | | | | | | | | |
| 2 | -3,03 | 1,75 | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0,00 | 3,50 | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3,03 | 1,75 | | | | | | | | | | | | | | | | | | | | | |
| 5 | 3,03 | -1,75 | | | | | | | | | | | | | | | | | | | | | |
| 6 | 0,00 | 0,00 | | | | | | | | | | | | | | | | | | | | | |

You can find the component part drawing on the next page.

Technical data

General values

| | |
|--------------------------|------------------------|
| Connector design | female cable connector |
| Connector locking system | bolted |
| Termination | solder |
| Wire gauge (mm) | 0,75 mm ² |
| Wire gauge (AWG) | 20 |
| Cable outlet | 4,0 - 6,0 mm |
| Upper limit temperature | 85 °C |
| Lower limit temperature | -40 °C |

Electrical values

| | |
|---------------------------|----------------------|
| Rated current (40 °C) | 5 A |
| Rated voltage | 250 V |
| Rated impulse voltage | 1500 V |
| Pollution degree | 1 |
| Overvoltage category | I |
| Insulating material group | III |
| Volume resistivity | ≤ 5 mΩ |
| Insulation resistance | ≥ 10 ¹⁰ Ω |
| EMC compliance | shieldable |
| Degree of protection | IP40 |
| Mechanical operation | > 500 Mating cycles |

Material

| | |
|-----------------------|-----------------|
| Contact material | CuSn (bronze) |
| Contact plating | Ag (silver) |
| Contact body material | PBT (UL 94 V-0) |

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Security notices

The connector must not be connected or separated under load. Non-observance and incorrect use can result in personal injury.

The connectors are designed for use in plant, control system and electrical equipment. The end user is responsible for checking whether the connectors are suitable for use in other applications.

To prevent the connector being opened unintentionally when used in electrical circuits containing hazardous life parts, the thread between the housing and the connector head must be secured using a suitable cyanoacrylate adhesive. This does not apply to connectors used in SELV and PELV circuits according to IEC 61140 (EN 61140, VDE 0140-1).

Connectors used in electrical circuits containing hazardous life parts must only be assembled and used by or under the supervision of persons with the requisite electrotechnical training, taking the applicable regulations and standards into account.

The connector is not suitable for mains voltages. Please observe the pollution degrees and the overvoltage category. For further information refer to 'Technical support' in the Download Centre.

To lock the cable connector to the equipment connector, the threaded ring is tightened until it is 'finger-tight' (approx. 50 cNm).