

## Panel feed-through - ST-8ES1N8ACK03S - 1618824

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Panel feed-through, straight, SPEEDCON locking, M17, number of positions: 5+3+PE, type of contact: Socket, Flat gasket, 4x Ø 3.2, shielded: yes, flange dimensions: 25.75 mm x 25.75 mm, degree of protection: IP67, cable diameter range: 5 mm ... 9 mm, number of positions: 9, connection method: Crimp connection

The figure shows the 8-position version.

### Your advantages

- ✓ Reduced size: ideal for compact devices
- ✓ Consistent EMC protection for reliable connection solutions in the industrial environment
- ✓ Crimping connection: vibration- and temperature-resistant assembly
- ✓ Flexible use: reliably connect various cable diameters
- ✓ User-specific, suitable for front and rear mounting



### Key Commercial Data

|                      |   |
|----------------------|---|
| Packing unit         | 1 pc  |
| GTIN                 | <br>4 046356 817509 |
| GTIN                 | 4046356817509   |
| Custom tariff number | 85366990  |
| Country of origin    | Germany   |

### Technical data

#### General

|  |   |
|--|---|
| Note   | Order information: Order crimp contacts 5 x 0.6 mm, 4 x Ø 1 mm separately |
| Type of locking                                    | SPEEDCON locking  |
| Direction of rotation of contact chamber numbering | Standard  |
| Coding   | N   |

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## Technical data

### General

|                                     |                  |
|-------------------------------------|------------------|
| Contact connection method           | Crimp connection |
| Type of contacts                    | Socket           |
| Number of positions                 | 9                |
| Contact diameter of power contacts  | 1 mm             |
| Rated current for power contacts    | 14 A             |
| Contact diameter of signal contacts | 0.6 mm           |
| Nominal current per signal contact  | 3.6 A            |
| Conductor entry                     | 5 mm ... 9 mm    |
| Pg housing screw connection         | none             |
| Mounting type                       | 4x Ø 3.2         |

### Ambient conditions

|                      |                   |
|----------------------|-------------------|
| Ambient temperature  | -40 °C ... 125 °C |
| Degree of protection | IP67              |

### Specifications according to DIN EN 61984:2001

|  |        |
|--|--------|
| Installation height max.                       | 2000 m |
| Nominal / operating voltage of power contacts  | 630 V  |
| Rated surge voltage of power contacts          | 6 kV   |
| Overvoltage category of power contacts         | III    |
| Degree of pollution of power contacts          | 3      |
| Nominal / operating voltage of signal contacts | 60 V   |
| Rated surge voltage of signal contacts         | 1.5 kV |
| Overvoltage category of signal contacts        | III    |
| Degree of pollution of signal contacts         | 3      |

### Standards and Regulations

|             |  |
|-------------|--|
| Safety note | WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.   |
|             | • WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.  |
|             | • WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product. |
|             | • The products are suitable for applications in plant, controller, and electrical device engineering.  |
|             | • When operating the connectors in outdoor applications, they must be separately protected against environmental influences.   |

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### Technical data

#### Standards and Regulations

|  |  |
|--|--|
|  | <ul style="list-style-type: none"> <li>Assembled products may not be manipulated or improperly opened.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li> </ul> |
|  | <ul style="list-style-type: none"> <li>When using the product in direct connection with third-party manufacturers, the user is responsible.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>Only use tools recommended by Phoenix Contact</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The installation notes/Design In documents online on the download page at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> must be observed for this product.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>Operate the connector only when it is fully plugged in and interlocked.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>Observe the minimum bending radius of the cable. Lay the cable without twisting it.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).</li> </ul>       |

#### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

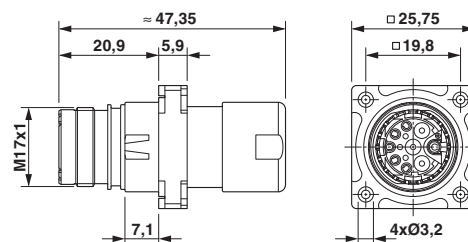
### Drawings

Schematic diagram



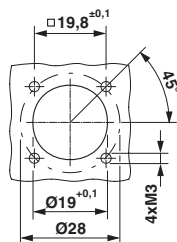
Connector pin assignment

Dimensional drawing

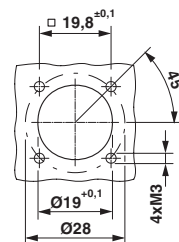


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Dimensional drawing

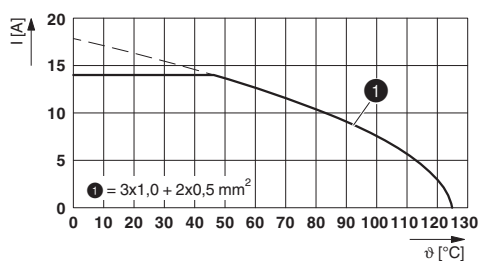


Schematic diagram



Installation dimensions

Diagram



I = current strength,  $\theta$  = ambient temperature, 3x 14 A + 2x 2 A constant

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440102 |
| eCl@ss 11.0   | 27440102 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| eCl@ss 5.1    | 27260700 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27440103 |
| eCl@ss 9.0    | 27440102 |

ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001121 |
| ETIM 4.0 | EC002635 |
| ETIM 6.0 | EC002061 |

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### Classifications

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 43172015 |
| UNSPSC 7.0901 | 43201404 |
| UNSPSC 11     | 43172015 |
| UNSPSC 12.01  | 43201404 |
| UNSPSC 13.2   | 39121413 |
| UNSPSC 18.0   | 39121413 |
| UNSPSC 19.0   | 39121413 |
| UNSPSC 20.0   | 39121413 |
| UNSPSC 21.0   | 39121413 |

### Approvals


#### Approvals


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UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

### Approval details

|                    |  |   |   |               |
|--------------------|--|---|---|---------------|
| UL Recognized      |  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 335019 |
|                    |  |   |   |               |
| Nominal voltage UN |  | 600 V   |   |               |
| Nominal current IN |  | 3.5 A   |   |               |
| mm²/AWG/kcmil      |  | 20  |   |               |

|                    |  |   |   |               |       |
|--------------------|--|---|---|---------------|-------|
| cUL Recognized     |  |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 335019 |       |
|                    |  |   |   |               |       |
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| mm²/AWG/kcmil      |  |   |   |               | 20    |

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### Approvals

EAC



B.01687

cULus Recognized



### Accessories

#### Accessories

#### Crimp contact

Crimp contact - ST-06KS010 - 1607580



Crimp contact, turned, contact diameter: 0.6 mm, crimp range: 0.06 mm<sup>2</sup> ... 0.25 mm<sup>2</sup>

Crimp contact - ST-06KS020 - 1607581



Crimp contact, turned, contact diameter: 0.6 mm, crimp range: 0.14 mm<sup>2</sup> ... 0.34 mm<sup>2</sup>

Crimp contact - ST-06KS030 - 1607582



Crimp contact, turned, contact diameter: 0.6 mm, crimp range: 0.34 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>

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### Accessories

Crimp contact - ST-10KS010 - 1618239



Crimp contact, turned, Single contact, contact diameter: 1 mm, crimp range: 0.06 mm<sup>2</sup> ... 0.25 mm<sup>2</sup>

Crimp contact - ST-10KS035 - 1618464



Crimp contact, turned, contact diameter: 1 mm, crimp range: 0.25 mm<sup>2</sup> ... 1 mm<sup>2</sup>

### Mounting material

Color-coding - ST-Z0016 - 1617993



Color-coding, color: green

Color-coding - ST-Z0017 - 1618049



Color-coding, color: orange

Color-coding - ST-Z0018 - 1618050



Color-coding, color: black

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### Accessories

#### Protective cover

Protective cap - ST-Z0023 - 1621049



Plastic protection cap for connectors with M17 compact external thread