

RSCWE 6-3/5 - Plug-in test socket



3969921

<https://www.phoenixcontact.com/us/products/3969921>

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Plug-in test socket, nom. voltage: 400 V, number of connections: 10, number of positions: 5, connection method: Ring cable lug, Rated cross section: 6 mm², 1 level, mounting type: Panel mounting, color: gray

Your advantages

- Cost-effective, thanks to the tailored, modular design and use of standardized CLIPLINE complete accessories
- Space saving, thanks to compact, modular plug-in test sockets
- Maximum safety with leading and automatic transformer short circuit
- The integrated, robust switch contact is designed for the most stringent demands, and the use of high-quality materials ensures the transmission of signal currents, even after multiple actuations

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3969921 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BE06 |
| Product key | BE6113 |
| GTIN | 4055626272610 |
| Weight per piece (including packing) | 270.6 g |
| Weight per piece (excluding packing) | 270.6 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

3969921

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Technical data

Product properties

| | |
|-----------------------|---------------------|
| Product type | Test terminal strip |
| Product family | FAME 3 |
| Number of positions | 5 |
| Pitch | 8.2 mm |
| Number of connections | 10 |
| Number of rows | 1 |
| Potentials | 5 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
|----------------------|-----|

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 4 kV |
| Maximum power dissipation for nominal condition | 1.31 W |
| Test surge voltage | 5 kV |

Connection data

| | |
|---------------------------------|-------------------|
| Number of connections per level | 10 |
| Nominal cross section | 6 mm ² |

1 level

| | |
|--|--|
| Connection method | Ring cable lug |
| Screw thread | No 8 UNC |
| Tightening torque | 1.5 ... 1.8 Nm |
| Internal cylindrical gage | A5 |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross-section flexible | 0.5 mm ² ... 10 mm ² |
| Conductor cross-section, flexible [AWG] | 24 ... 8 (converted acc. to IEC) |
| 2 conductors with same cross section, rigid | 0.5 mm ² ... 6 mm ² |
| 2 conductors with same cross section, flexible | 0.5 mm ² ... 6 mm ² |
| Nominal cross section | 6 mm ² |
| Maximum load current | 30 A (with 10 mm ² conductor cross-section) |
| Nominal voltage | 400 V AC/DC |

Cable lug connection DIN 46234:1980-03

| | |
|----------------------------------|--|
| Connection in acc. with standard | DIN 46234:1980-03 |
| Cross section | 0.5 mm ² ... 10 mm ² |
| Cross section range AWG | (converted acc. to IEC) |
| Hole diameter | 4.3 mm |
| Width | 8 mm |
| Bolt diameter | 4.1 mm |
| Connection in acc. with standard | DIN 46237:1970-07 |

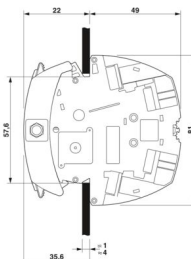
RSCWE 6-3/5 - Plug-in test socket

3969921

<https://www.phoenixcontact.com/us/products/3969921>

| | |
|--|--|
| Cross section | 0.5 mm ² ... 10 mm ² |
| Cross section range AWG | (converted acc. to IEC) |
| Hole diameter | 4.3 mm |
| Width | 8 mm |
| Bolt diameter | 4.1 mm |
| Identification color of ring cable lugs : red | 1 mm ² |
| Identification color of ring cable lugs : blue | 2.5 mm ² |
| Identification color of ring cable lugs : yellow | 6 mm ² |

Dimensions

| | |
|---------------------|---|
| Dimensional drawing |  |
| Width | 73.4 mm |
| Height | 81 mm |
| Depth | 70.1 mm |
| Pitch | 8.2 mm |
| Plate thickness | 1 mm ... 4 mm |

Material specifications

| | |
|---|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 27,5 MJ/kg |
| Surface flammability NFPA 130 (ASTM E 162) | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |

Electrical tests

Surge voltage test

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| | |
|-----------------------|-------------|
| Test voltage setpoint | 4.8 kV |
| Result | Test passed |

Temperature-rise test

| | |
|--|-------------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 4 mm ² | 300 A |
| | 500 A |
| | 150 A |
| | 1250 A |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|-----------------------|-------------|
| Test voltage setpoint | 1.89 kV |
| Result | Test passed |

Mechanical properties

General

| | |
|-------------------------|-----------------|
| Terminal block mounting | 0.8 Nm ... 1 Nm |
|-------------------------|-----------------|

Mechanical data

| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Mechanical tests

Mechanical strength

| | |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

Attachment on the carrier

| | |
|---------------------|-------------|
| Test force setpoint | 5 N |
| Result | Test passed |

Environmental and real-life conditions

Aging

| | |
|--------------------|-------------|
| Temperature cycles | 192 |
| Result | Test passed |

Needle-flame test

| | |
|------------------|-------------|
| Time of exposure | 30 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|---------------|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1 = 5$ Hz to $f_2 = 250$ Hz |
| ASD level | 6.12 (m/s ²) ² /Hz |
| Acceleration | 3.12g |

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3969921

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| | |
|------------------------|-------------------|
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| Result | Test passed |

Ambient conditions

| | |
|--|---|
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

Standards and regulations

| | |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

Mounting

| | |
|-------------------------|-----------------|
| Mounting type | Panel mounting |
| Terminal block mounting | 0.8 Nm ... 1 Nm |

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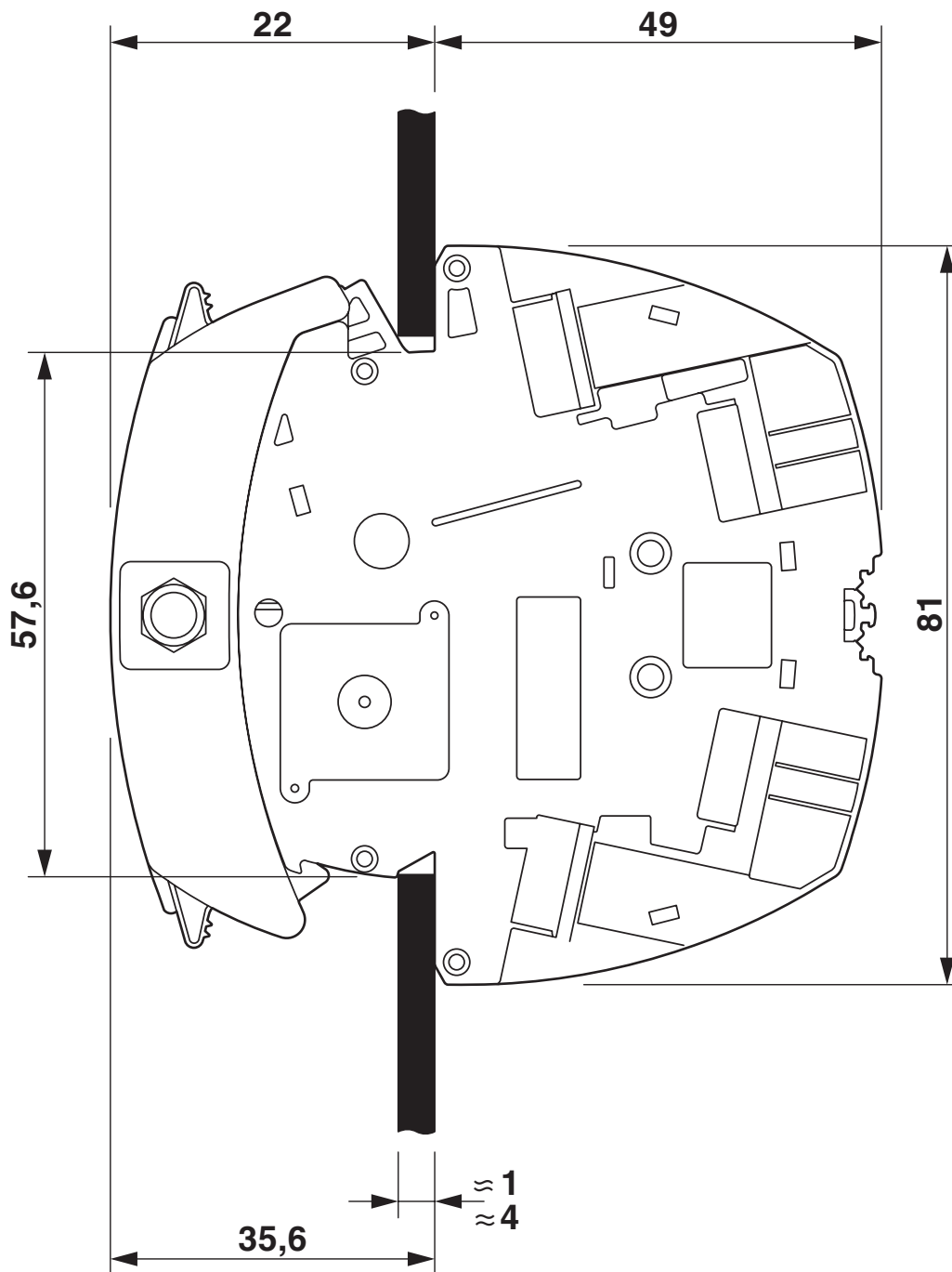


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Drawings

Dimensional drawing



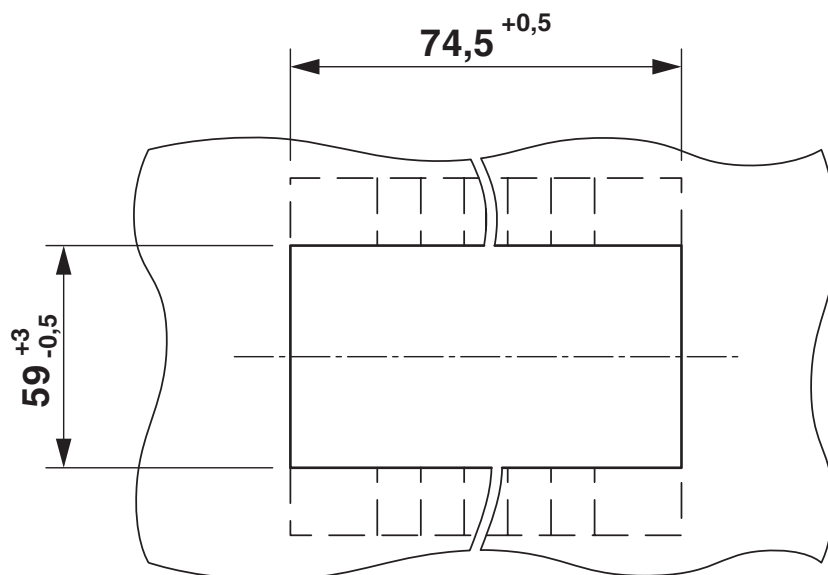
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Dimensional drawing



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Circuit diagram



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Approvals

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cULus Recognized
Approval ID: E60425



CSA
Approval ID: 13631

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| B | | | | |
| | 600 V | 31 A | 20 - 8 | - |
| C | | | | |
| | 600 V | 31 A | 20 - 8 | - |



EAC
Approval ID: RU C-DE.BL08.B.00682



cULus Recognized
Approval ID: E60425

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250190 |
| ECLASS-15.0 | 27250190 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002848 |
|-----------|----------|

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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