

EO-CF/PT - Socket



0804038

<https://www.phoenixcontact.com/us/products/0804038>

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Socket, Pin connector pattern type CF, connection method: Push-in spring connection, color: gray, nom. voltage: 250 V AC (50 Hz), nominal current: 16 A, for mounting on a DIN rail in the service interface or direct mounting, standards/specifications: VDE 0620-1, IEC 60884-1, Country marking: Germany

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 0804038 |
| Packing unit | 5 pc |
| Minimum order quantity | 5 pc |
| Sales key | BE76 |
| Product key | BE7621 |
| GTIN | 4055626225784 |
| Weight per piece (including packing) | 73.6 g |
| Weight per piece (excluding packing) | 61.922 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

Technical data

Notes

| | |
|--------------------|--|
| Notes on operation | This socket is not designed for applications with high loads (HL), such as chargers for electric vehicles and large radiant heaters. |
|--------------------|--|

General

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| Note | The nominal current does not apply for fuse versions. In this case, the current is determined by the fuse. |
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Product properties

| | |
|--------------|---------|
| Product type | Socket |
| Country ID | Germany |

Electrical properties

| | |
|---|-------|
| Maximum power dissipation for nominal condition | 1.8 W |
|---|-------|

Connection data

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|---|--|
| Connection method | Push-in spring connection |
| Note | The electrical outlets with Push-in connection are not designed for through-wiring. Connect a maximum of one conductor to each terminal point. Multiple assignment of one terminal point is not permitted. |
| Stripping length | 10 mm |
| Internal cylindrical gage | A3 B3 |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Cross section AWG | 24 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.25 mm ² ... 2.5 mm ² |
| Conductor cross-section, flexible [AWG] | 24 ... 14 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm ² ... 2.5 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 0.25 mm ² ... 2.5 mm ² |
| Nominal current | 16 A |
| Nominal voltage | 250 V AC (50 Hz) |

Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross-section rigid | 0.5 mm ² ... 4 mm ² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1 mm ² ... 2.5 mm ² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 1 mm ² ... 2.5 mm ² |

Signaling

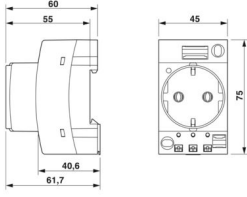
| | |
|----------------|----|
| Status display | no |
|----------------|----|

Dimensions

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| Dimensional drawing |  |
|---------------------|--|
| Width | 45 mm |
| Height | 75 mm |
| Depth | 62.1 mm |
| Depth on NS 35/7,5 | 63 mm |
| Depth on NS 35/15 | 70.5 mm |
| Hole diameter | 4.4 mm |

Material specifications

| | |
|--|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 |
| Insulating material | PA |
| Contact material | CuZn38 |
| Static insulating material application in cold | -60 °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 |
| 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 |

Connector

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|--------------|-------------------------------|
| Type of plug | Pin connector pattern type CF |
|--------------|-------------------------------|

Environmental and real-life conditions

Oscillation/broadband noise

| | |
|------------------------|--|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$ |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

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| | |
|--------------------------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| 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

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -45 °C ... 70 °C (max. operating temperature range including self-heating, see derating curve) |
| Ambient temperature (storage/transport) | -45 °C ... 70 °C |
| Permissible humidity (storage/transport) | 30 % ... 70 % |
| Resistance against air humidity | 95 % ... 48 h |

Standards and regulations

Standards

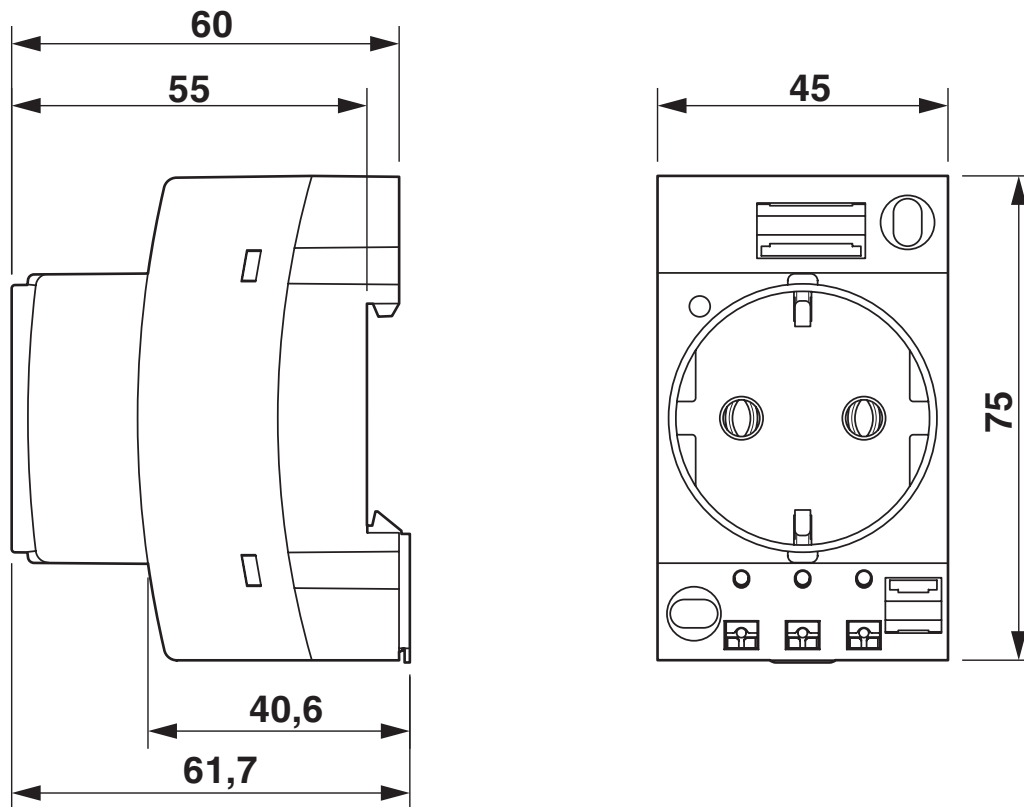
| | |
|-----------------------|-------------|
| Standards/regulations | VDE 0620-1 |
| | IEC 60884-1 |

Mounting

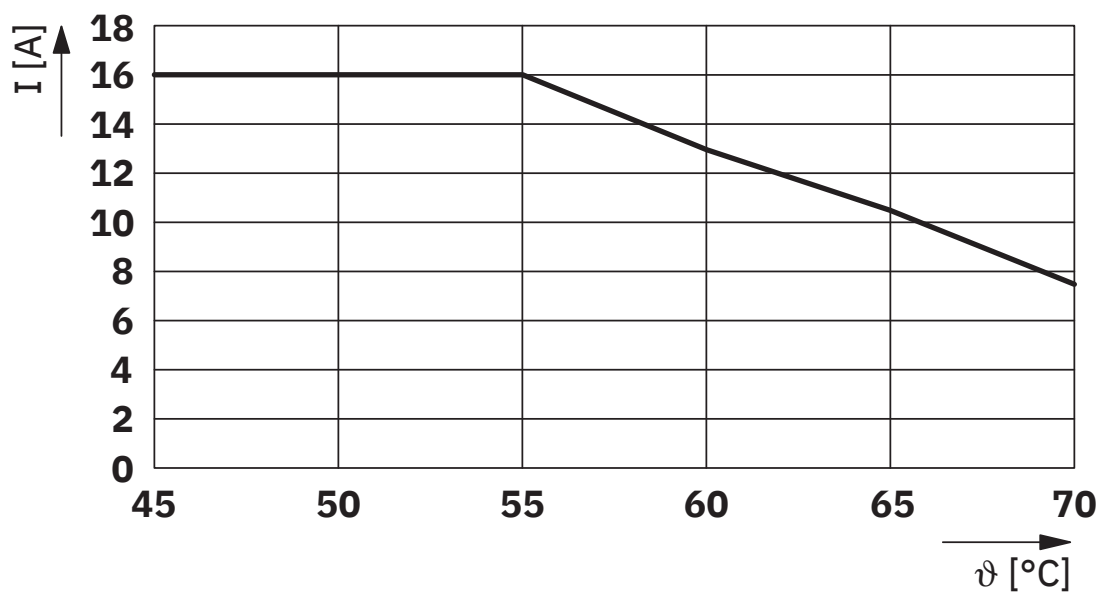
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|---------------|--|
| Mounting type | for mounting on a DIN rail in the service interface or direct mounting |
|---------------|--|

Drawings

Dimensional drawing



Diagram



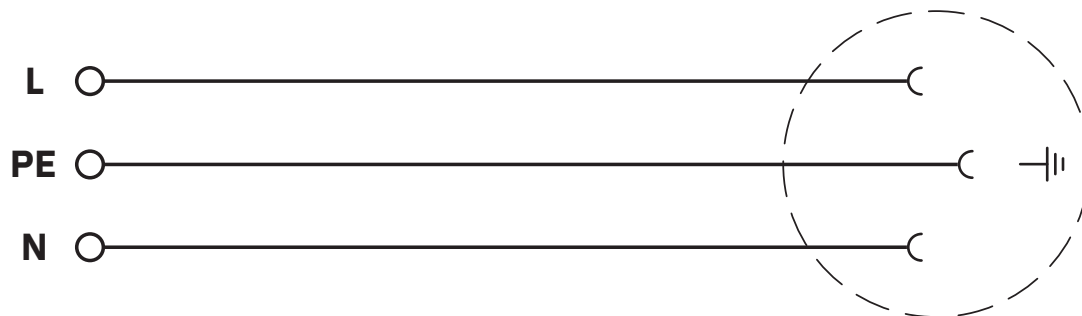
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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0804038>

|  VDE Gutachten mit Fertigungsüberwachung Approval ID: 40047713 | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 250 V | 16 A | - | - |

|  EAC-RoHS Approval ID: RU D-DE.HB49.B.00025 | |
|--|--|
|--|--|

|  EAC Approval ID: KZ7500651131219505 | |
|---|--|
|---|--|

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27142305 |
| ECLASS-15.0 | 27142305 |

ETIM

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|-----------|----------|
| ETIM 10.0 | EC001663 |
|-----------|----------|

UNSPSC

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

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

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|--|--|
| 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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.489 kg CO2e |
|---------|---------------|

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