

3270148

https://www.phoenixcontact.com/us/products/3270148

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Potential distributors, nom. voltage: 250 V, nominal current: 17.5 A, connection method: Push-in connection, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 2.5 mm², mounting: NS 35/7,5, NS 35/15, color: gray, color of connection elements: yellow, black

Your advantages

- · Potential distributor in black-yellow version for marking the functional ground
- · Tool-free wiring in a confined space thanks to compact size
- · Individual color assignment of cable and terminal point to ensure error-free, safe operation
- High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- The 2.3 mm test pick-off enables testing between the conductors with commercially available test probes

Commercial data

| Item number | 3270148 |
|--------------------------------------|--------------------|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | BE62 |
| Product key | BE6211 |
| Catalog page | Page 51 (C-1-2019) |
| GTIN | 4046356796217 |
| Weight per piece (including packing) | 33.36 g |
| Weight per piece (excluding packing) | 33.36 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |



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Technical data

Product properties

| Product type | Potential distributor |
|----------------------------|-----------------------|
| Number of positions | 2 |
| Number of connections | 32 |
| Number of rows | 8 |
| Potentials | 1 |
| Insulation characteristics | |
| | |
| Overvoltage category | III |

Electrical properties

| Rated surge voltage | 4 kV |
|---|--------|
| Maximum power dissipation for nominal condition | 0.56 W |

Connection data

| Number of connections per level | 4 |
|---------------------------------|---------------------|
| Nominal cross section | 1.5 mm ² |

1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level

| Stripping length | 8 mm 10 mm |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section rigid | 0.14 mm² 2.5 mm² |
| Cross section AWG | 26 14 (converted acc. to IEC) |
| Conductor cross section flexible | 0.14 mm² 1.5 mm² |
| Conductor cross section, flexible [AWG] | 26 16 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm² 1.5 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.14 mm² 1.5 mm² |
| Nominal current | 17.5 A |
| Maximum load current | 20 A (in case of a 2.5 mm² conductor cross section, the maximum load current must not be exceeded by the total curren of all connected conductors.) |
| Nominal voltage | 250 V |
| Nominal cross section | 1.5 mm² |

1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level Connection cross sections directly pluggable

| Conductor cross section rigid | 0.34 mm² 2.5 mm² |
|---|-------------------------------|
| Conductor cross section, rigid [AWG] | 20 14 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm² 1.5 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.34 mm² 1.5 mm² |

Dimensions

| Width | 8.3 mm |
|--------|--------|
| Height | 100 mm |



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| Depth on NS 35/7,5 | 87.5 mm |
|--------------------|---------|
| Depth on NS 35/15 | 95 mm |

Material specifications

| Color | gray |
|---|-------------------|
| Color of connection elements | yellow (4x top) |
| | black (4x bottom) |
| 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

| 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 1.5 mm² | 0.18 kA |
| Short-time withstand current 2.5 mm² | 0.3 kA |
| Result | Test passed |
| | |

Power-frequency withstand voltage

| Test voltage setpoint | 1.5 kV |
|-----------------------|-------------|
| Result | Test passed |

Mechanical properties

Mechanical data

| Open side panel | Yes |
|-----------------|-----|

Mechanical tests



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| Result | Test passed |
|--|---|
| tachment on the carrier | |
| DIN rail/fixing support | NS 35 |
| Test force setpoint | 1 N |
| Result | Test passed |
| est for conductor damage and slackening | |
| Rotation speed | 10 rpm |
| Revolutions | 135 |
| Conductor cross section/weight | 0.14 mm² / 0.2 kg |
| | 1.5 mm² / 0.4 kg |
| | 2.5 mm² / 0.7 kg |
| Result | Test passed |
| ging Temperature cycles | 192 |
| Result | Test passed |
| 7.55 | 101,0000 |
| eedle-flame test | |
| Time of exposure | 30 s |
| Result | Test passed |
| scillation/broadband noise | |
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Service life test category 2, bogie-mounted |
| Frequency | f ₁ = 5 Hz to f ₂ = 250 Hz |
| ASD level | 6.12 (m/s²)²/Hz |
| Acceleration | 3.12g |
| | 5 h |
| Test duration per axis | 011 |
| Test duration per axis Test directions | X-, Y- and Z-axis |
| · | |
| Test directions Result | X-, Y- and Z-axis |
| Test directions Result | X-, Y- and Z-axis |
| Test directions Result | X-, Y- and Z-axis Test passed |
| Test directions Result nocks Specification | X-, Y- and Z-axis Test passed DIN EN 50155 (VDE 0115-200):2008-03 |
| Test directions Result nocks Specification Pulse shape | X-, Y- and Z-axis Test passed DIN EN 50155 (VDE 0115-200):2008-03 Half-sine |
| Test directions Result nocks Specification Pulse shape Acceleration | X-, Y- and Z-axis Test passed DIN EN 50155 (VDE 0115-200):2008-03 Half-sine 30g |
| Test directions Result nocks Specification Pulse shape Acceleration Shock duration | X-, Y- and Z-axis Test passed DIN EN 50155 (VDE 0115-200):2008-03 Half-sine 30g 18 ms |
| Test directions Result nocks Specification Pulse shape Acceleration Shock duration Number of shocks per direction | X-, Y- and Z-axis Test passed DIN EN 50155 (VDE 0115-200):2008-03 Half-sine 30g 18 ms 3 |



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| | Elec.) |
|---|---|
| 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 % |
| andards and regulations Connection in acc. with standard | IEC 60947-7-1 |
| ounting | |
| Mounting type | NS 35/7,5 |
| | NS 35/15 |



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Classifications

ECLASS

| | ECLASS-11.0 | 27141120 | | | |
|--------|-------------|----------|--|--|--|
| | ECLASS-13.0 | 27250105 | | | |
| ETIM | | | | | |
| | ETIM 9.0 | EC000897 | | | |
| UNSPSC | | | | | |
| | UNSPSC 21.0 | 39121400 | | | |



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Environmental product compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|
| | No hazardous substances above threshold values |

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