

3270181

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Potential distributors, without actuating push button, nom. voltage: 250 V, nominal current: 17.5 A, connection method: Push-in connection, 1st, 2nd, 3rd and 4th level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 2.5 mm², mounting: NS 35/7,5, NS 35/15, color: blue, color of connection elements: black

Your advantages

- Potential distributor for distributing potentials up to 17.5 A in EXi areas
- · High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- · Tool-free wiring in a confined space thanks to compact size
- The 2.3 mm test pick-off enables testing between the conductors with commercially available test probes

Commercial data

| Item number | 3270181 |
|--------------------------------------|---------------|
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Product key | BE6211 |
| GTIN | 4046356796323 |
| Weight per piece (including packing) | 16.71 g |
| Weight per piece (excluding packing) | 16.71 g |
| Country of origin | PL |



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Technical data

Product properties

| Product type | Potential distributor |
|----------------------------|-----------------------|
| Number of positions | 2 |
| Number of connections | 16 |
| Number of rows | 4 |
| 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 and 4th 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 14 (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 current of all connected conductors.) |
| Nominal voltage | 250 V |
| Nominal cross section | 1.5 mm² |

1st, 2nd, 3rd and 4th 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 |
|-------|--------|

Material specifications



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| Color | blue (RAL 5015) |
|---|-----------------|
| Color of connection elements | black |
| 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

Mechanical strength

| Result | Test passed |
|---------------------------|-------------|
| Attachment on the carrier | |
| Attachment on the camer | |
| DIN rail/fixing support | NS 35 |
| | |



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| Test passed |
|---|
| ' |
| |
| 10 rpm |
| 135 |
| 0.14 mm² / 0.2 kg |
| 1.5 mm² / 0.4 kg |
| 2.5 mm² / 0.7 kg |
| Test passed |
| |
| |
| 192 |
| Test passed |
| |
| 30 s |
| Test passed |
| |
| DIN EN 50155 (VDE 0115-200):2008-03 |
| Long life test category 2, bogie-mounted |
| f ₁ = 5 Hz to f ₂ = 250 Hz |
| 6.12 (m/s²)²/Hz |
| 3.12g |
| 5 h |
| X-, Y- and Z-axis |
| Test passed |
| |
| DIN EN 50155 (VDE 0115-200):2008-03 |
| Half-sine |
| 30g |
| 18 ms |
| 3 |
| X-, Y- and Z-axis (pos. and neg.) |
| Test passed |
| |
| -60 °C 105 °C (max. short-term operating temperature RTI Elec.) |
| -25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| -5 °C 70 °C |
| |



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| Permissible humidity (storage/transport) | 30 % 70 % | | |
|--|---------------|--|--|
| | | | |
| Standards and regulations | | | |
| Connection in acc. with standard | IEC 60947-7-1 | | |
| | | | |
| Mounting | | | |
| Mounting type | NS 35/7.5 | | |
| Wodnung typo | | | |
| | NS 35/15 | | |

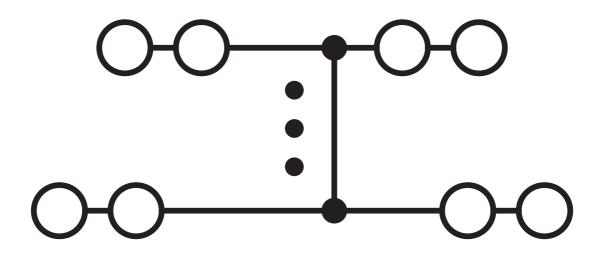


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Drawings

Circuit diagram





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Classifications

ETIM

| | ETIM 8.0 | EC000897 | | |
|----|-------------|----------|--|--|
| UN | 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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