

Feed-through terminal block - UT 2,5 BK - 3045088

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Feed-through terminal block, Connection method: Screw connection, Cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, Width: 5.2 mm, Color: black, Mounting type: NS 35/7,5, NS 35/15

The illustration shows the color version

Product Features

- The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- The multi-conductor connection offers maximum flexibility and wiring density
- Optimum screwdriver guidance through closed screw shafts
- The cable entry funnel enables the use of conductors with ferrules and plastic collars within the nominal cross section



Key Commercial Data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| Weight per Piece (excluding packing) | 8.15 g |
| Custom tariff number | 85369010 |
| Country of origin | Germany |

Technical data

General

| | |
|-----------------------|---------------------|
| Number of levels | 1 |
| Number of connections | 2 |
| Nominal cross section | 2.5 mm ² |
| Color | black |
| Insulating material | PA |

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Technical data

General

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| | Process industry |
| Rated surge voltage | 8 kV |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Insulating material group | I |
| Connection in acc. with standard | IEC 60947-7-1 |
| Maximum load current | 32 A (with 4 mm ² conductor cross section) |
| Nominal current I _N | 24 A |
| Nominal voltage U _N | 1000 V |
| Open side panel | Yes |
| Shock protection test specification | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection | guaranteed |
| Finger protection | guaranteed |
| Result of surge voltage test | Test passed |
| Surge voltage test setpoint | 9.8 kV |
| Result of power-frequency withstand voltage test | Test passed |
| Power frequency withstand voltage setpoint | 2.2 kV |
| Result of the test for mechanical stability of terminal points (5 x conductor connection) | Test passed |
| Result of bending test | Test passed |
| Bending test rotation speed | 10 rpm |
| Bending test turns | 135 |
| Bending test conductor cross section/weight | 0.14 mm ² / 0.2 kg |
| | 2.5 mm ² / 0.7 kg |
| | 4 mm ² / 0.9 kg |
| Tensile test result | Test passed |
| Conductor cross section tensile test | 0.14 mm ² |
| Tractive force setpoint | 10 N |
| Conductor cross section tensile test | 2.5 mm ² |
| Tractive force setpoint | 50 N |
| Conductor cross section tensile test | 4 mm ² |
| Tractive force setpoint | 60 N |
| Result of tight fit on support | Test passed |

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Technical data

General

| | |
|---|---|
| Tight fit on carrier | NS 35 |
| Setpoint | 1 N |
| Result of voltage-drop test | Test passed |
| Requirements, voltage drop | ≤ 3.2 mV |
| Result of temperature-rise test | Test passed |
| Short circuit stability result | Test passed |
| Conductor cross section short circuit testing | 2.5 mm ² |
| Short-time current | 0.3 kA |
| Conductor cross section short circuit testing | 4 mm ² |
| Short-time current | 0.48 kA |
| Result of thermal test | Test passed |
| Proof of thermal characteristics (needle flame) effective duration | 30 s |
| Oscillation, broadband noise test result | Test passed |
| Test specification, oscillation, broadband noise | DIN EN 50155 (VDE 0115-200):2008-03 |
| Test spectrum | Service life test category 1, class B, body mounted |
| Test frequency | f ₁ = 5 Hz to f ₂ = 150 Hz |
| ASD level | 1.857 (m/s ²) ² /Hz |
| Acceleration | 0,8 g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Shock test result | Test passed |
| Test specification, shock test | DIN EN 50155 (VDE 0115-200):2008-03 |
| Shock form | Half-sine |
| Acceleration | 5 g |
| Shock duration | 30 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C |
| Static insulating material application in cold | -60 °C |

Dimensions

| | |
|------------------|---------|
| Width | 5.2 mm |
| End cover width | 2.2 mm |
| Length | 47.7 mm |
| Height NS 35/7,5 | 47.5 mm |
| Height NS 35/15 | 55 mm |

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Technical data

Connection data

| | |
|---|--|
| Connection method | Screw connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Note | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section AWG min. | 26 |
| Conductor cross section AWG max. | 12 |
| Conductor cross section flexible min. | 0.14 mm ² |
| Conductor cross section flexible max. | 4 mm ² |
| Min. AWG conductor cross section, flexible | 26 |
| Max. AWG conductor cross section, flexible | 12 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 2.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.14 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 2.5 mm ² |
| 2 conductors with same cross section, solid min. | 0.14 mm ² |
| 2 conductors with same cross section, solid max. | 1.5 mm ² |
| 2 conductors with same cross section, stranded min. | 0.14 mm ² |
| 2 conductors with same cross section, stranded max. | 1.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.14 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 1.5 mm ² |
| Connection in acc. with standard | IEC/EN 60079-7 |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section AWG min. | 26 |
| Conductor cross section AWG max. | 12 |
| Conductor cross section flexible min. | 0.14 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Stripping length | 9 mm |
| Internal cylindrical gage | A3 |
| Screw thread | M3 |
| Tightening torque, min | 0.5 Nm |

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Technical data

Connection data

| | |
|-----------------------|--------|
| Tightening torque max | 0.6 Nm |
|-----------------------|--------|

Standards and Regulations

| | |
|--|---------------|
| Connection in acc. with standard | CSA |
| | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27141120 |
| eCl@ss 4.1 | 27141120 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141120 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |
| eCl@ss 9.0 | 27141120 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11 | 39121410 |
| UNSPSC 12.01 | 39121410 |
| UNSPSC 13.2 | 39121410 |

Approvals

Approvals

Approvals

CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / DNV / IECCEB CB Scheme / EAC / EAC / RS / cULus Recognized

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Approvals


Ex Approvals


IECEX / ATEX / UL Recognized / cUL Recognized / EAC Ex


Approvals submitted

Approval details

| | | |
|---|-------|-------|
| CSA  | | |
| | B | C |
| mm ² /AWG/kcmil | 26-12 | 26-12 |
| Nominal current I _N | 20 A | 20 A |
| Nominal voltage U _N | 600 V | 600 V |

| | | |
|---|-------|-------|
| UL Recognized  | | |
| | B | C |
| mm ² /AWG/kcmil | 26-12 | 26-12 |
| Nominal current I _N | 20 A | 20 A |
| Nominal voltage U _N | 600 V | 600 V |

| | |
|---|---------|
| VDE Gutachten mit Fertigungsüberwachung  | |
| mm ² /AWG/kcmil | 0.2-2.5 |
| Nominal voltage U _N | 800 V |

| | | |
|--|-------|-------|
| cUL Recognized  | | |
| | B | C |
| mm ² /AWG/kcmil | 26-12 | 26-12 |
| Nominal current I _N | 20 A | 20 A |

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Approvals

| | | |
|--------------------|-------|-------|
| | B | C |
| Nominal voltage UN | 600 V | 600 V |

DNV

| | |
|----------------------------|---------|
| IECEE CB Scheme | |
| mm ² /AWG/kcmil | 0.2-2.5 |
| Nominal voltage UN | 800 V |

EAC

EAC

RS

cULus Recognized

Drawings

Circuit diagram

