

Feed-through terminal block - UT 35 - 3044225

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Feed-through terminal block, Connection method: Screw connection, Cross section: 1.5 mm² - 50 mm², AWG: 16 - 1/0, Width: 16 mm, Height: 65.1 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- ✔ The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"
- ✔ Tested for railway applications
- ✔ Easy and time-saving potential supply and distribution of large currents and cross sections up to 35 mm² with reducing bridges
- ✔ The reducing bridges can be used to connect terminal blocks with different connection technologies, e.g., UT 35 screw terminal block with Push-in technology 2,5 Push-in terminal blocks, to form power blocks



Key commercial data

| | |
|------------------|---------------|
| package_quantity | 50 |
| GTIN | 4017918977559 |

Technical data

General

| | |
|---|------------------------|
| Number of levels | 1 |
| Number of connections | 2 |
| Color | gray |
| Insulating material | PA |
| Inflammability class according to UL 94 | V0 |
| Area of application | Railway industry |
| Area of application | Mechanical engineering |
| Area of application | Plant engineering |
| Area of application | Process industry |

General

| | |
|---------------------------|---|
| Maximum load current | 150 A (with 50 mm ² conductor cross section) |
| Rated surge voltage | 8 kV |
| Pollution degree | 3 |
| Surge voltage category | III |
| Insulating material group | I |

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Technical data

General

| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |
| Nominal current I _N | 125 A |
| Nominal voltage U _N | 1000 V |
| Open side panel | nein |
| Shock protection test specification | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection | guaranteed |
| Finger protection | guaranteed |
| Surge voltage test setpoint | 9.8 kV |
| Result of surge voltage test | Test passed |
| Power frequency withstand voltage setpoint | 2.2 kV |
| Result of power-frequency withstand voltage test | Test passed |
| Checking the mechanical stability of terminal points (5 x conductor connection) | Test passed |
| Bending test rotation speed | 10 rpm |
| Bending test turns | 135 |
| Bending test conductor cross section/weight | 1.5 mm ² / 0.4 kg |
| Bending test conductor cross section/weight | 35 mm ² / 6.8 kg |
| Bending test conductor cross section/weight | 50 mm ² / 9.5 kg |
| Result of bending test | Test passed |
| Conductor cross section tensile test | 1.5 mm ² |
| Tractive force setpoint | 40 N |
| Conductor cross section tensile test | 35 mm ² |
| Tractive force setpoint | 190 N |
| Conductor cross section tensile test | 50 mm ² |
| Tractive force setpoint | 236 N |
| Tensile test result | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 10 N |
| Result of tight fit test | Test passed |
| Requirements, voltage drop | ≤ 3.2 mV |
| Result of voltage drop test | Test passed |
| Temperature-rise test | Test passed |
| Conductor cross section short circuit testing | 35 mm ² |
| Short-time current | 4.2 kA |
| Conductor cross section short circuit testing | 50 mm ² |
| Short-time current | 6 kA |
| Short circuit stability result | Test passed |
| Proof of thermal characteristics (needle flame) effective duration | 30 s |
| Result of thermal test | 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 |

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Technical data

General

| | |
|--|--|
| 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 |
| Oscillation, broadband noise 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.) |
| Shock test result | Test passed |
| Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |
| Static insulating material application in cold | -60 °C |

Dimensions

| | |
|-------------------------|---------|
| Width | 16 mm |
| Length | 60.2 mm |
| Height | 65.1 mm |
| Height NS 35/7,5 | 65.7 mm |
| Height NS 35/15 | 73.2 mm |

Connection data

| | |
|---|--|
| Connection in acc. with standard | IEC 60947-7-1 |
| Connection method | Screw connection |
| 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. | 1.5 mm ² |
| Conductor cross section solid max. | 50 mm ² |
| Conductor cross section AWG/kcmil min. | 16 |
| Conductor cross section AWG/kcmil max | 1/0 |
| Conductor cross section stranded min. | 1.5 mm ² |
| Conductor cross section stranded max. | 50 mm ² |
| Min. AWG conductor cross section, stranded | 16 |
| Max. AWG conductor cross section, stranded | 1 |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 1.5 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 35 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve min. | 1.5 mm ² |

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Technical data

Connection data

| | |
|---|---------------------|
| Conductor cross section stranded, with ferrule with plastic sleeve max. | 35 mm ² |
| 2 conductors with same cross section, solid min. | 1.5 mm ² |
| 2 conductors with same cross section, solid max. | 16 mm ² |
| 2 conductors with same cross section, stranded min. | 1.5 mm ² |
| 2 conductors with same cross section, stranded max. | 10 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 1.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 16 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 1.5 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 10 mm ² |
| Stripping length | 18 mm |
| Internal cylindrical gage | B9 |
| Screw thread | M6 |
| Tightening torque, min | 3.2 Nm |
| Tightening torque max | 3.7 Nm |

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 |

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 |

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approvals

IECEX / ATEX / CSA / UL Recognized / VDE Zeichengenehmigung / cUL Recognized / GOST / GL / RS / IECCEB Scheme / GOST / cULus Recognized /

Approval details

| IECEX | |
|----------------------------|--------|
| Nominal voltage UN | 690 V |
| Nominal current IN | 126 A |
| mm ² /AWG/kcmil | 1.5-35 |

| ATEX | |
|----------------------------|--------|
| Nominal voltage UN | 690 V |
| Nominal current IN | 125 A |
| mm ² /AWG/kcmil | 1.5-35 |

| CSA | | |
|----------------------------|-------|-------|
| Usegroups | B | C |
| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 150 A | 150 A |
| mm ² /AWG/kcmil | 14 | 14 |

| UL Recognized | | |
|----------------------------|-------|-------|
| Usegroups | B | C |
| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 150 A | 150 A |
| mm ² /AWG/kcmil | 14 | 14 |

| VDE Zeichengenehmigung | |
|----------------------------|--------|
| Nominal voltage UN | 1000 V |
| Nominal current IN | 125 A |
| mm ² /AWG/kcmil | 1.5-35 |

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approvals

cUL Recognized

| Usegroups | B | C |
|----------------------------|-------|-------|
| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 150 A | 150 A |
| mm ² /AWG/kcmil | 14 | 14 |

GOST

GL

RS

IECEE CB Scheme

| | |
|----------------------------|--------|
| Nominal voltage UN | 1000 V |
| Nominal current IN | 125 A |
| mm ² /AWG/kcmil | 1.5-35 |

cULus Recognized

accessories

Pick-off terminal block

AGK 4-UT 35 - 3047138



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accessories

Marker pen

X-PEN 0,35 - 0811228



Partition plate

TPNS-UK - 0706647



Warning label printed

WS UT 35 - 3047387

End block

E/NS 35 N - 0800886



E/UK - 1201442



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accessories

E/UK 1 - 1201413



CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



Bridge

FBS 2-16 - 3005963



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accessories

RB UT 35-(2,5/4) - 3047277



RB UT 35-ST(2,5/4) - 3047280



Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



NS 35/ 7,5 WH PERF 2000MM - 1204119



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accessories

NS 35/ 7,5 WH UNPERF 2000MM - 1204122



NS 35/ 7,5 AL UNPERF 2000MM - 0801704



NS 35/ 7,5 ZN PERF 2000MM - 1206421



NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



NS 35/ 7,5 CU UNPERF 2000MM - 0801762



NS 35/ 7,5 CAP - 1206560



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accessories

NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



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accessories

NS 35/15 ZN PERF 2000MM - 1206599



NS 35/15 ZN UNPERF 2000MM - 1206586



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



NS 35/15-2,3 UNPERF 2000MM - 1201798



Terminal marking

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accessories

ZB 15:UNBEDRUCKT - 0811972



Labeled terminal marker

ZB 15 CUS - 0824945



ZB 15,LGS:L1-N,PE - 0811998



Planning and marking software

CLIP-PROJECT ADVANCED - 5146040



CLIP-PROJECT PROFESSIONAL - 5146053



Drawings

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Circuit diagram



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