

Bolt connection terminal block - RT 8 - 3049042

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Bolt connection terminal block, Connection type: Bolt connection, Cross section: 2.5 mm² - 35 mm², AWG: 14 - 2, Nominal current: 125 A, Nominal voltage: 1000 V, Length: 84 mm, Width: 20.3 mm, Color: gray, Assembly: NS 35/7,5, NS 35/15

Why buy this product

- ✓ The special clamping nuts can be actuated with a normal screwdriver
- ✓ Easy bridging and potential distribution using the patented plug-in bridges from the CLIPLINE complete system
- ✓ Quick and easy connection thanks to hinged cover flaps which hold the clamping nuts captive. When the flaps are open, the connection bolt is freely accessible and the cable lugs can be hooked in; after closing and engaging the flaps
- ✓ The screws are secured against loosening by captive spring-loaded spacers
- ✓ Large-surface labeling options in the terminal center and above the terminal points
- ✓ The use of the switching lock effectively prevents unintentional switching
- ✓ The hinged cover cover the live metal parts including the insulated cable lugs in the clamping area so that they are touch proof
- ✓ Testing with the standardized test adapters and test plugs of the CLIPLINE complete system
- ✓ Tested for railway applications



Key Commercial Data

| | |
|--------------------------------------|-----------------|
| Packing unit | 25 pc |
| Minimum order quantity | 25 pc |
| GTIN | 4 046356 140027 |
| Weight per Piece (excluding packing) | 95.72 g |
| Custom tariff number | 85369010 |
| Country of origin | China |

Technical data

General

| | |
|-----------------------|-------------------------------------------------------------------------------------------------|
| Note | Note: the BE-RT... path extension is to be used for non-insulated cable lugs (see accessories). |
| Number of levels | 1 |
| Number of connections | 2 |

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Technical data

General

| | |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Nominal cross section | 35 mm ² |
| Color | gray |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Area of application | Railway industry |
| | Mechanical engineering |
| | 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 | 125 A (with 35 mm ² conductor cross section) |
| Nominal current I _N | 125 A |
| Nominal voltage U _N | 1000 V (Rated voltage for open disconnect point 500 V) |
| Open side panel | ja |
| Number of positions | 1 |
| 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 tight fit on support | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 10 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 | 35 mm ² |
| Short-time current | 4.2 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 |

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Technical data

General

| | |
|-------------------------------------------------------------------------|------------------------------------------------|
| Test frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$ |
| ASD level | 0.02 g^2/Hz |
| Acceleration | 0.8g |
| 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)) | 120 °C |

Dimensions

| | |
|------------------|---------|
| Width | 20.3 mm |
| End cover width | 2.2 mm |
| Length | 84 mm |
| Height NS 35/7,5 | 63.8 mm |
| Height NS 35/15 | 71.3 mm |

Connection data

| | |
|---------------------------------------------|-------------------|
| Note | Connection bolts |
| Connection method | Bolt connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section solid min. | 2.5 mm^2 |
| Conductor cross section solid max. | 35 mm^2 |
| Conductor cross section AWG min. | 14 |
| Conductor cross section AWG max. | 2 |
| Conductor cross section flexible min. | 2.5 mm^2 |
| Conductor cross section flexible max. | 35 mm^2 |
| Min. AWG conductor cross section, flexible | 14 |
| Max. AWG conductor cross section, flexible | 2 |
| Cable lug connection according to standard | DIN 46 234 |
| Min. cross section for cable lug connection | 2.5 mm^2 |
| Max. cross section for cable lug connection | 35 mm^2 |
| Hole diameter | 8.4 mm |
| Width | 16 mm |
| Bolt diameter | 8 mm |
| Cable lug connection according to standard | DIN 46237 |

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Technical data

Connection data

| | |
|---------------------------------------------|---------------------|
| Min. cross section for cable lug connection | 2.5 mm ² |
| Max. cross section for cable lug connection | 6 mm ² |
| Hole diameter | 8.4 mm |
| Width | 14 mm |
| Bolt diameter | 8 mm |
| Screw thread | M8 |
| Tightening torque, min | 4.5 Nm |
| Tightening torque max | 5 Nm |

Standards and Regulations

| | |
|----------------------------------------|---------------|
| Connection in acc. with standard | CUL |
| | IEC 60947-7-1 |
| | DIN 46 234 |
| | DIN 46237 |
| 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 |

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Approvals

Approvals

Approvals

UL Recognized / VDE Zeichengenehmigung / cUL Recognized / ABS / IECEx CB Scheme / VDE Zeichengenehmigung / EAC / EAC / cULus Recognized

Ex Approvals

ATEX / IECEx / EAC Ex

Approvals submitted

Approval details

UL Recognized

| | B | C |
|--------------------------------|-------|-------|
| Nominal current I _N | 130 A | 130 A |
| Nominal voltage U _N | 600 V | 600 V |

VDE Zeichengenehmigung

| | | |
|--------------------------------|--------|--|
| mm ² /AWG/kcmil | 2.5-35 | |
| Nominal current I _N | 125 A | |
| Nominal voltage U _N | 1000 V | |

cUL Recognized

| | B | C |
|--------------------------------|-------|-------|
| Nominal current I _N | 130 A | 130 A |
| Nominal voltage U _N | 600 V | 600 V |

ABS

IECEE CB Scheme

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Approvals

| | |
|--------------------------------|--------|
| VDE Zeichengenehmigung | |
| mm ² /AWG/kcmil | 2.5-35 |
| Nominal current I _N | 125 A |
| Nominal voltage U _N | 1000 V |

EAC

EAC

cULus Recognized

Accessories

Accessories

DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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



DIN rail 35 mm (NS 35)

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Accessories

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



DIN rail 35 mm (NS 35)

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



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

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



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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Accessories

End cap - NS 35/ 7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5



DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail 35 mm (NS 35)

DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail 35 mm (NS 35)

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Accessories

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

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Accessories

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



DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

End clamp - E/UK - 1201442



End clamp, Width: 9.5 mm, Height: 35.3 mm, Length: 50.5 mm, Color: gray

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Accessories

End clamp - E/UK 1 - 1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

End cover

End cover - D-RT 8 - 3049194



Cover, width: 2.2 mm, color: gray

Path extension - BE-RT 8 - 3049916



Path extension

Jumper

Plug-in bridge - FBS 2-10 - 3005947



Plug-in bridge, Number of positions: 2, Color: red

Plug-in bridge - FBS 5-10 - 3005948



Plug-in bridge, Number of positions: 5, Color: red

Labeled terminal marker

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Accessories

Zack marker strip - ZB 16,3 CUS - 0824946



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 16.3 mm, Lettering field: 10.5 x 16.25 mm

Zack marker strip - ZB 20,3 CUS - 0824948



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 20.3 mm, Lettering field: 10.5 x 20.25 mm

Partition plate

Partition plate - TPN-UK - 3003062



Partition plate, Length: 110 mm, Width: 2 mm, Height: 69 mm, Color: gray

Screwdriver tools

Screwdriver - SZS 1,0X4,0 VDE - 1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

Terminal marking

Zack marker strip - ZB 16,3:UNPRINTED - 0820222



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 16.3 mm, Lettering field: 10.5 x 16.25 mm

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Accessories

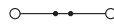
Zack marker strip - ZB 20,3:UNPRINTED - 0820248



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 20.3 mm, Lettering field: 10.5 x 20.25 mm

Drawings

Circuit diagram



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