

Feed-through terminal block - ST 10 - 3036110

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Feed-through terminal block, Connection method: Spring-cage connection, Cross section: 0.2 mm² - 16 mm², AWG: 24 - 6, Width: 10.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- The double bridge shaft not only enables individual chain bridging, but also reducing bridging to spring-cage terminal blocks with smaller cross sections
- Tested for railway applications
- The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"



Key commercial data

| | |
|----------------------|---|
| Packing unit | 1 PCE |
| GTIN |  4 017918 819088 |
| Custom tariff number | 85369010 |
| Country of origin | POLAND |

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 |
| | Mechanical engineering |

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Technical data

General

| | |
|---|--|
| | Plant engineering |
| | Process industry |
| Maximum load current | 65 A (with 16 mm ² conductor cross section) |
| Rated surge voltage | 8 kV |
| Pollution degree | 3 |
| Surge voltage category | III |
| Insulating material group | I |
| Connection in acc. with standard | IEC 60947-7-1 |
| Nominal current I _N | 57 A |
| Nominal voltage U _N | 1000 V |
| Open side panel | ja |
| 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 | 0.2 mm ² / 0.2 kg |
| | 10 mm ² / 2 kg |
| | 16 mm ² / 2.9 kg |
| Result of bending test | Test passed |
| Conductor cross section tensile test | 0.2 mm ² |
| Tractive force setpoint | 10 N |
| Conductor cross section tensile test | 10 mm ² |
| Tractive force setpoint | 90 N |
| Conductor cross section tensile test | 16 mm ² |
| Tractive force setpoint | 100 N |
| Tensile test result | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 5 N |
| Result of tight fit test | Test passed |
| Requirements, voltage drop | ≤ 3.2 mV |

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Technical data

General

| | |
|---|---|
| Result of voltage drop test | Test passed |
| Temperature-rise test | Test passed |
| Conductor cross section short circuit testing | 10 mm ² |
| Short-time current | 1.2 kA |
| Short circuit stability result | Test passed |
| Ageing test for screwless modular terminal block temperature cycles | 192 |
| Result of aging test | 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 |
| 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 | 10.2 mm |
| Length | 71.5 mm |
| Height NS 35/7,5 | 50.3 mm |
| Height NS 35/15 | 58 mm |

Connection data

| | |
|--|---------------------|
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 16 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 6 |

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Technical data

Connection data

| | |
|---|------------------------|
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 10 mm ² |
| Min. AWG conductor cross section, stranded | 24 |
| Max. AWG conductor cross section, stranded | 8 |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.25 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 10 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve min. | 0.25 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve 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. | 2.5 mm ² |
| Connection method | Spring-cage connection |
| Stripping length | 18 mm |
| Internal cylindrical gage | A6 |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27141121 |
| eCl@ss 4.1 | 27141121 |
| 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 |

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121410 |
|-------------|----------|

Approvals

Approvals

Approvals


CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / LR / GL / BV / DNV / RS / KR / NK / IEC EE CB Scheme / GOST / VDE Gutachten mit Fertigungsüberwachung / IEC EE CB Scheme / GOST / cULus Recognized


Ex Approvals

IECEX / ATEX

Approvals submitted


Approval details


| | | |
|---|-------|-------|
| CSA  | | |
| | B | C |
| mm ² /AWG/kcmil | 16-6 | 16-6 |
| Nominal current I _N | 65 A | 65 A |
| Nominal voltage U _N | 600 V | 600 V |

| | | |
|---|-------|-------|
| UL Recognized  | | |
| | B | C |
| mm ² /AWG/kcmil | 16-6 | 16-6 |
| Nominal current I _N | 65 A | 65 A |
| Nominal voltage U _N | 600 V | 600 V |

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Approvals

| | |
|---|--------|
| VDE Gutachten mit Fertigungsüberwachung  | |
| mm ² /AWG/kcmil | 1.5-10 |
| Nominal current I _N | 57 A |
| Nominal voltage U _N | 800 V |

| | | |
|--|-------|-------|
| cUL Recognized  | | |
| | B | C |
| mm ² /AWG/kcmil | 16-6 | 16-6 |
| Nominal current I _N | 65 A | 65 A |
| Nominal voltage U _N | 600 V | 600 V |

LR

| | |
|--------------------------------|-------|
| GL | |
| mm ² /AWG/kcmil | 10 |
| Nominal current I _N | 57 A |
| Nominal voltage U _N | 800 V |

BV

DNV


RS

KR


NK


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Approvals


| | |
|---|--------|
| IECEE CB Scheme  | |
| mm ² /AWG/kcmil | 1.5-10 |
| Nominal voltage UN | 800 V |

| | |
|--|--|
| GOST  | |
|--|--|

| | |
|---|--------|
| VDE Gutachten mit Fertigungsüberwachung  | |
| mm ² /AWG/kcmil | 1.5-10 |
| Nominal current IN | 57 A |
| Nominal voltage UN | 800 V |

| | |
|---|-------|
| IECEE CB Scheme  | |
| mm ² /AWG/kcmil | 10 |
| Nominal voltage UN | 800 V |

| | |
|--|--|
| GOST  | |
|--|--|

| | |
|--|--|
| cULus Recognized  | |
|--|--|

Accessories

Accessories

Assembly

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Accessories

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 - NS 35/ 7,5 UNPERF 2000MM - 0801681



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

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



DIN rail 35 mm (NS 35)

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

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Accessories

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



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

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

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

End clamp - E/UK - 1201442



End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail

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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 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

Bridges

Plug-in bridge - FBS 2-10 - 3005947



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

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Accessories

Covers

End cover - D-ST 10 - 3036644



End cover, Length: 71.5 mm, Width: 2.2 mm, Height: 49.9 mm, Color: gray

Marking

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

Warning cover - WST 10/35 - 3030006

Warning cover, 5-pos., for terminal widths of 10.2 mm, 12.2 mm, and 16 mm



Zack marker strip - ZB 10:UNBEDRUCKT - 1053001



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 10.2 mm, Lettering field: 10.5 x 10.15 mm

Zack marker strip - ZB 10 CUS - 0824941



Zack marker strip, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 10.2 mm, Lettering field: 10.15 x 10.5 mm

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Accessories

Marker for terminal blocks - UC-TM 10 - 0818069



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 10.2 mm, Lettering field: 9.6 x 10.5 mm

Marker for terminal blocks - UC-TM 10 CUS - 0824605



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 10.2 mm, Lettering field: 9.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 10 - 0829142



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: THERMOMARK CARD PLUS, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into tall marker groove, For terminal block width: 10.2 mm, Lettering field: 8.9 x 9.6 mm

Marker for terminal blocks - UCT-TM 10 CUS - 0829623



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 10.2 mm, Lettering field: 8.9 x 9.6 mm

Plug/Adapter

Reducing bridge - RB ST 10-(2,5/4) - 3030873



Reducing bridge, Number of positions: 2, Color: red

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Accessories

Test plugs - MPS-MT - 0201744



Test plugs, Color: silver/glossy

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, Color: white

Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, Color: red

Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, Color: yellow

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Accessories

Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, Color: gray

Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, Color: black

Software

Software - CLIP-PROJECT ADVANCED - 5146040



Multilingual software for easy planning of Phoenix Contact on DIN rails together with the integrated TRABTECH-select software module for planning comprehensive surge protection concepts.

Software - CLIP-PROJECT PROFESSIONAL - 5146053



Multi-lingual software for terminal strip project planning. A marking module allows professional labeling of markers and labels for marking terminal blocks, conductors, cables and devices. The additionally integrated software module TRABTECH-select for planning comprehensive surge protection concepts.

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Accessories

Tools

Screwdriver - SZF 3-1,0X5,5 - 1206612



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

Mounting material - ST-IL - 3039900

Operating decal for the ST terminal block



Drawings

Circuit diagram

