

Multi-level terminal block - PT 2,5-3PV - 3210512

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Multi-level terminal block, Connection method: Push-in connection, Cross section: 0.14 mm² - 4 mm², AWG: 26 - 12, Width: 5.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- The compact design and front connection enable wiring in a confined space
- In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection
- Tested for railway applications
-



Key commercial data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| Weight per Piece (excluding packing) | 22.8 GRM |
| Custom tariff number | 85369010 |
| Country of origin | Poland |

Technical data

General

| | |
|-----------------------------------------|---------------------|
| Number of levels | 3 |
| Number of connections | 6 |
| Rated cross section | 2.5 mm ² |
| Color | gray |
| Insulating material | PA |
| Inflammability class according to UL 94 | V0 |

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Technical data

General

| | |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Area of application | Railway industry |
| | Mechanical engineering |
| | Plant engineering |
| Rated surge voltage | 6 kV |
| Pollution degree | 3 |
| Surge voltage category | III |
| Insulating material group | I |
| Connection in acc. with standard | IEC 60947-7-1 |
| Current | 24 A |
| Additional text | In case of a 4 mm ² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors. |
| Nominal current I _N | 20 A |
| Nominal voltage U _N | 500 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 | 7.3 kV |
| Result of surge voltage test | Test passed |
| Power frequency withstand voltage setpoint | 1.89 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 | 0.14 mm ² / 0.2 kg |
| | 2.5 mm ² / 0.7 kg |
| | 4 mm ² / 0.9 kg |
| Result of bending test | 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 |
| Tensile test result | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 1 N |

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Technical data

General

| | |
|-----------------------------------------------------------------------|-----------------------------------------------------|
| Result of tight fit test | Test passed |
| Result of voltage drop test | Test passed |
| Temperature-rise test | 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 |
| 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 | 0.8g |
| 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)) | 125 °C |
| Static insulating material application in cold | -60 °C |

Dimensions

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|------------------|---------|
| Width | 5.2 mm |
| Length | 102 mm |
| Height NS 35/7,5 | 58 mm |
| Height NS 35/15 | 65.5 mm |

Connection data

| | |
|-------------------|--------------------|
| Connection method | Push-in connection |
|-------------------|--------------------|

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Technical data

Connection data

| | |
|-----------------------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 4 mm ² |
| Conductor cross section flexible min. | 0.14 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section AWG min. | 26 |
| Conductor cross section AWG max. | 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, stranded, TWIN ferrules with plastic sleeve, max. | 0.5 mm ² |
| Minimum stripping length | 8 mm |
| Maximum stripping length | 10 mm |
| Internal cylindrical gage | A3 |

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 |

ETIM

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

UNSPSC

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|---------------|----------|
| 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 / LR / GL / RS / IECEx CB Scheme / BV / ABS / NK / EAC / NK / EAC / cULus Recognized


Ex Approvals


IECEx / ATEX / EAC Ex

Approvals submitted

Approval details

| | | |
|---------------------------------------------------------------------------------------------------|-------|-------|
| UL Recognized  | | |
| | B | C |
| mm ² /AWG/kcmil | 26-12 | 26-12 |
| Nominal current I _N | 20 A | 20 A |
| Nominal voltage U _N | 300 V | 300 V |

| | |
|------------------------------------------------------------------------------------------------------------|---------|
| VDE Zeichengenehmigung  | |
| mm ² /AWG/kcmil | 0.2-4.0 |
| Nominal current I _N | 20 A |
| Nominal voltage U _N | 500 V |

| | | |
|----------------------------------------------------------------------------------------------------|-------|-------|
| cUL Recognized  | | |
| | B | C |
| mm ² /AWG/kcmil | 26-12 | 26-12 |
| Nominal current I _N | 20 A | 20 A |
| Nominal voltage U _N | 300 V | 300 V |


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Approvals

LR

GL

RS

| | |
|---------------------------------------------------------------------------------------------------|---------|
| IECEE CB Scheme  | |
| mm ² /AWG/kcmil | 0.2-4.0 |
| Nominal current I _N | 20 A |
| Nominal voltage U _N | 500 V |

BV


ABS

NK

EAC

NK

EAC

cULus Recognized 

Drawings

Circuit diagram

