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Potential distributors, Nom. voltage: 250 V, Nominal current: 17.5 A, Cross section: 0.14 mm² - 2.5 mm², AWG: 14 - 26, Connection type: Push-in connection, Number of positions: 2, Number of connections: 32, Width: 8.3 mm, Length: 100 mm, Color: gray, Color of connection elements: black, Assembly: NS 35/7,5, NS 35/15

Why buy this product

- ☑ Bridgeable potential distributor
- ☐ High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- ▼ Tool-free wiring in a confined space thanks to compact size



Key Commercial Data

| Packing unit | 1 STK |
|--------------------------------------|-----------------|
| Minimum order quantity | 10 STK |
| GTIN | 4 046356 963411 |
| GTIN | 4046356963411 |
| Weight per Piece (excluding packing) | 56.000 g |
| Custom tariff number | 85369010 |
| Country of origin | Poland |

Technical data

General

| Number of positions | 2 |
|-----------------------|---------|
| Number of levels | 8 |
| Number of connections | 32 |
| Potentials | 1 |
| Nominal cross section | 1.5 mm² |
| Color | gray |



Technical data

General

| Color of connection elements | black |
|---|---|
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Rated surge voltage | 4 kV |
| Overvoltage category | III |
| Insulating material group | I |
| Maximum load current | 24 A (per chamber with 2.5 mm² conductor cross section) |
| Maximum total current | 37 A (per potential distributor) |
| Nominal current I _N | 17.5 A (with 1.5 mm² conductor cross section) |
| Nominal voltage U _N | 250 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 | 4.8 kV |
| Result of power-frequency withstand voltage test | Test passed |
| Power frequency withstand voltage setpoint | 1.5 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 mm² / 0.2 kg |
| | 1.5 mm² / 0.4 kg |
| | 2.5 mm² / 0.7 kg |
| Tensile test result | Test passed |
| Conductor cross section tensile test | 0.14 mm² |
| Tractive force setpoint | 10 N |
| Conductor cross section tensile test | 1.5 mm ² |
| Tractive force setpoint | 40 N |
| Conductor cross section tensile test | 2.5 mm ² |
| Tractive force setpoint | 50 N |
| Result of tight fit on support | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 1 N |
| Result of voltage-drop test | Test passed |



Technical data

General

| Requirements, voltage drop | ≤ 6,4 mV |
|--|---|
| Result of temperature-rise test | Test passed |
| Short circuit stability result | Test passed |
| Conductor cross section short circuit testing | 1.5 mm² |
| Short-time current | 0.18 kA |
| Conductor cross section short circuit testing | 2.5 mm ² |
| Short-time current | 0.3 kA |
| Result of aging test | Test passed |
| Ageing test for screwless modular terminal block temperature cycles | 192 |
| 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 2, bogie mounted |
| Test frequency | $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ |
| ASD level | 6.12 (m/s²)²/Hz |
| Acceleration | 3.12 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 | 30g |
| Shock duration | 18 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 |
| Behavior in fire for rail vehicles (DIN 5510-2) | Test passed |
| Flame test method (DIN EN 60695-11-10) | V0 |
| Oxygen index (DIN EN ISO 4589-2) | >32 % |
| NF F16-101, NF F10-102 Class I | 2 |
| NF F16-101, NF F10-102 Class F | 2 |
| Surface flammability NFPA 130 (ASTM E 162) | 2 |
| | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | |



Technical data

General

| Calorimetric heat release NFPA 130 (ASTM E 1354) | 27,5 MJ/kg |
|--|-------------|
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 |

Dimensions

| Width | 8.3 mm |
|------------------|---------|
| Length | 100 mm |
| Height NS 35/7,5 | 87.5 mm |
| Height NS 35/15 | 95 mm |

Connection data

| Connection method | Push-in connection |
|--|---------------------|
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section solid min. | 0.14 mm² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section AWG min. | 26 |
| Conductor cross section AWG max. | 14 |
| Conductor cross section flexible min. | 0.14 mm² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Min. AWG conductor cross section, flexible | 26 |
| Max. AWG conductor cross section, flexible | 14 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.14 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 1.5 mm² |
| Stripping length | 8 mm 10 mm |

Standards and Regulations

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

Environmental Product Compliance

| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|
| | No hazardous substances above threshold values |

Drawings



Circuit diagram

00 00

Classifications

eCl@ss

| eCl@ss 5.1 | 27141120 |
|------------|----------|
| eCl@ss 6.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |
| eCl@ss 9.0 | 27141120 |

ETIM

| ETIM 4.0 | EC000897 |
|----------|----------|
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |

UNSPSC

| UNSPSC 13.2 | 39121410 |
|---------------|----------|
| 01401 00 10.2 | 33121410 |

Approvals

Approvals

Approvals

DNV GL / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

| DNV GL | https://www.dnvgl.com/ | TAE000016Y |
|--------|------------------------|-------------|
| DIV OL | | 17(20000101 |

| UL Recognized | http://database.ul.co | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425 | |
|--------------------|-----------------------|--|--|
| | В | D | |
| mm²/AWG/kcmil | 26-14 | 26-14 | |
| Nominal current IN | 10 A | 10 A | |
| Nominal voltage UN | 300 V | 300 V | |



Approvals

| cUL Recognized | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425 | |
|--------------------|--|-------|
| | В | D |
| mm²/AWG/kcmil | 26-14 | 26-14 |
| Nominal current IN | 10 A | 10 A |
| Nominal voltage UN | 300 V | 300 V |

| cULus Recognized | c 91 us |
|------------------|----------------|
|------------------|----------------|

http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

Accessories

Accessories

Bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786



Continuous plug-in bridge, Length: 500 mm, Color: red

Continuous plug-in bridge - FBST 500-PLC GY - 2966838



Continuous plug-in bridge, Length: 500 mm, Color: gray

Continuous plug-in bridge - FBST 500-PLC BN - 2967976



Continuous plug-in bridge, Length: 500 mm, Color: brown



Accessories

Continuous plug-in bridge - FBST 500-PLC BU - 2966692



Continuous plug-in bridge, Length: 500 mm, Color: blue

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)

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



DIN rail 35 mm (NS 35)



Accessories

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

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

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



Documentation



Accessories

Mounting material - PT-IL - 3208090

Operating decal for the push-in Technology



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



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-PTRV 8 WH - 3270154



End cover, Length: 100 mm, Width: 3.8 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH 1-8 - 3270155



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH 1-8 LGS - 3270240



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH 8-1 - 3270242



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white



Accessories

End cover - D-PTRV 8 WH 8-1 LGS - 3270244



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH 1-16 - 3270228



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH 1-16 LGS - 3270229



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH 9-16 - 3270211



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH 9-16 LGS - 3270212



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white



Accessories

End cover - D-PTRV 8 WH 17-24 - 3270213



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH 17-24 LGS - 3270214



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH 25-32 - 3270215



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH 25-32 LGS - 3270216



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH A-H - 3270156



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white



Accessories

End cover - D-PTRV 8 WH A-H LGS - 3270241



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH H-A - 3270243



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

End cover - D-PTRV 8 WH H-A LGS - 3270245



End cover, Length: 100 mm, Width: 2.2 mm, Height: 80.8 mm, Color: white

Labeled terminal marker

Zack marker strip - ZB 8,3,LGS:FORTL.ZAHLEN - 0803480



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Mounting type: Snap into tall marker groove, Lettering field: 10.5 x 8.3 mm

Zack marker strip - ZB 8,3,QR:FORTL.ZAHLEN - 0803479



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Mounting type: Snap into tall marker groove, Lettering field: 10.5 x 8.3 mm



Accessories

Zack marker strip - ZB 8,3 CUS - 8191573



Zack marker strip, Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 8.3 mm, Lettering field: 10.5 x 8.3 mm

Marker for terminal blocks - TM-PTRV 8,QR:1-8 - 0803468



Marker for terminal blocks, white, labeled, Lettering field: 2,4x 9,2 mm

Marker for terminal blocks - TM-PTRV 8,QR:8-1 - 0803470



Marker for terminal blocks, white, labeled, Lettering field: 2,4x 9,2 mm

Marker for terminal blocks - TM-PTRV 8,QR:A-H - 0803471



Marker for terminal blocks, white, labeled, Lettering field: 2,4x 9,2 mm

Marker for terminal blocks - TM-PTRV 8,QR:H-A - 0803473



Marker for terminal blocks, white, labeled, Lettering field: 2,4x 9,2 mm

Mounting material



Accessories

Retaining bracket - CDC-PTRV - 3270167



Retaining bracket, via four PTRV single modules, Pitch: 8.3 mm, Width: 35.6 mm, Height: 71.5 mm, Color: gray

Partition plate

Spacer plate - DP-PTRV 8 - 3270166



Spacer plate, Length: 100 mm, Width: 8.3 mm, Height: 86 mm, Color: gray

Screwdriver tools

Screwdriver - ST-BW 0 - 1200135



Actuation tool, for all 1.5 mm² spring cages from PT 1,5/S and FT 1,5/S

Terminal marking

Zack marker strip - ZB 8,3:UNBEDRUCKT - 0803444



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, Lettering field: 10.5 x 8.3 mm

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