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Installation ground terminal block, Screw connection, cross section: 0.2 mm² - 4 mm², AWG: 24 - 12, width: 5.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

### Your advantages

- The installation terminal block features a particularly low-profile design and is suitable for wiring in flat installation distributors
- The asymmetrical arrangement of the terminal blocks on the DIN rail enables the neutral busbar to be routed past the terminal blocks



COMPLETE Sine

## **Key Commercial Data**

| Packing unit | 50 pc           |
|--------------|-----------------|
| GTIN         | 4 046356 644013 |
| GTIN         | 4046356644013   |

### Technical data

#### General

| Note                                   | Assembly instructions:For secure fastening of the neutral busbar, supports must be set at the beginning and end of each terminal strip as well as every 20 cm on longer terminal strips. |
|--|--|
| Number of positions                    | 1  |
| Number of levels                       | 3  |
| Number of connections                  | 5  |
| Potentials                             | 2  |
| Nominal cross section                  | 4 mm²  |
| Color                                  | gray   |
| Insulating material                    | PA   |
| Flammability rating according to UL 94 | V0   |
| Rated surge voltage                    | 4 kV   |
|  | 6 kV   |
| Degree of pollution                    | 3  |
| Overvoltage category                   | III  |



## Technical data

## General

| Insulating material group   | I   |
|---|---|
| Maximum power dissipation for nominal condition   | 1.02 W (the value is multiplied when connecting multiple levels)    |
| Maximum load current  | 30 A (with 4 mm² conductor cross section and 3-pos. terminal block) |
| Nominal current I <sub>N</sub>  | 24 A (with 4 mm² conductor cross section)                           |
| Nominal voltage U <sub>N</sub>  | 400 V (phase conductor/phase conductor)                             |
|   | 250 V (phase conductor/PE)  |
|   | 250 V (phase conductor/N)   |
| Open side panel   | Yes   |
| Ambient temperature (operation)   | -60 °C 85 °C  |
| Ambient temperature (storage/transport)   | -25 °C 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C)  |
| Permissible humidity (storage/transport)  | 30 % 70 %   |
| Ambient temperature (assembly)  | -5 °C 70 °C   |
| 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   | 7.3 kV  |
| Result of power-frequency withstand voltage test  | Test passed   |
| Power frequency withstand voltage setpoint  | 1.89 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   | 0.2 mm² / 0.2 kg  |
|   | 2.5 mm² / 0.7 kg  |
|   | 4 mm² / 0.9 kg  |
| Tensile test result   | Test passed   |
| Conductor cross section tensile test  | 0.2 mm <sup>2</sup>   |
| Tractive force setpoint   | 10 N  |
| Conductor cross section tensile test  | 2.5 mm²   |
| Tractive force setpoint   | 50 N  |
| Conductor cross section tensile test  | 4 mm²   |
| Tractive force setpoint   | 60 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   |
| Requirements, voltage drop  | ≤ 3.2 mV  |
| Result of temperature-rise test   | Test passed   |
| Short circuit stability result  | Test passed   |



## Technical data

## General

| Conductor cross section short circuit testing         2.5 mm²           Short-lime current         0.3 kA           Conductor cross section short circuit testing         4 mm²           Short-lime current         0.48 kA           Result of thermal test         Test passed           Ageing test for screwless modular terminal block temperature cycles         192           Proof of thermal characteristics (needle flame) effective duration         30 s           Result of aging test         Test spassed           Oscillation, broadband noise test result         Test spassed           Test specification, oscillation, broadband noise         DIN EN 50155 (VDE 0115-200):2008-03           Test specification, oscillation, broadband noise         DIN EN 50155 (VDE 0115-200):2008-03           Test specification, oscillation, broadband noise         Service life test category 2, bogie-mounted           Test specification, oscillation, broadband noise         Service life test category 2, bogie-mounted           Test specification         \$15 test 2 to 12 to 12 to 12 to 12 to 14 to 12 to 12 to 12 to 12 to 14 to 12 to 12 to 12 to 12 to 14 to 12 t   | General   |   |
|--|---|---|
| Conductor cross section short circuit testing  Short-time current  O.48 kA  Result of thermal test Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration  Result of aging test  Test passed  Oscillation, broadband noise test result Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03  Test spectrum Service life test category 2, bogie-mounted  Test frequency fr. = 5 Hz to fr. = 250 Hz  ASD level 6.12 (m/s²)²/Hz  Acceleration 3.12 g  Test duration per axis  Test duration per axis  Shock test result 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.)  Residure insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material polication in cold 5 ms Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Passed Fire protection for rail vehicles (DIN EN 45545-2) R22 H. L. 1 - H. L. 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3   | Conductor cross section short circuit testing                       | 2.5 mm²                                       |
| Short-time current  Result of thermal test Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration 30 s Result of aging test Oscillation, broadband noise test result Test passed Oscillation, broadband noise test result Test passed Oscillation, broadband noise test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Service life test category 2, bogie-mounted Test frequency f, = 5 Hz to f, = 250 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 DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 and Shock duration 18 ms Number of shocks per direction Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Surface flammability NFPA 130 (ASTM E 162) passed Smoke gas toxicity NFPA 130 (ASTM E 162) passed Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3  | Short-time current  | 0.3 kA  |
| Result of thermal test Ageing test for screwless modular terminal block temperature cycles 192 Proof of thermal characteristics (needle flame) effective duration 30 s Result of aging test Test passed Test passed Oscillation, broadband noise test result 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, = 5 Hz to f, = 250 Hz ASD level 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz Acceleration 3.12 g Test duration per axis 5 h Test duration per axis Test specification, shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test duration per axis Test specification 3.12 g Test duration per axis Test specification Banks Shock test result Test specification Test specification Test specification 30 g Shock duration 18 ms Number of shocks per direction 30 g Shock duration 18 ms Number of shocks per direction 30 c Test directions X-, Y- and Z-axis (pos. and neg.) Test directions Test directions Acceleration 130 °C Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Test directions Test direction of rail vehicles (DIN EN 45545-2) R22 H. 1 - H. 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 H. 1 - H. 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 H. 1 - H. 3   | Conductor cross section short circuit testing                       | 4 mm²   |
| Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration Result of aging test Oscillation, broadband noise test result Test passed Oscillation, broadband noise test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 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 <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test duration per axis Test drections X-, Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification and test specificat | Short-time current  | 0.48 kA                                       |
| Proof of thermal characteristics (needle flame) effective duration  Result of aging test  Test passed  Oscillation, broadband noise test result  Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2008-03  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2008-03  Test specification, oscillation, broadband noise  Test frequency  \$\frac{1}{6} = 5 \text{ fz} \text{ fo} \frac{1}{6} = 250 \text{ Hz}  ACCEIERATION  ACCEIERATION  \$\frac{1}{2} = 5 \text{ fz} \text{ to} \frac{1}{6} = 250 \text{ Hz}  ACCEIERATION  \$\frac{1}{2} = 5 \text{ fz} \text{ to} \frac{1}{6} = 250 \text{ Hz}  ACCEIERATION  \$\frac{1}{2} = 2  feet feet category 2, bogie-mounted for feet category 2, bogie-mounted feet category 2, bogie-mounted for feet category 2, bogie-moun                        | Result of thermal test  | Test passed                                   |
| Result of aging test  Oscillation, broadband noise test result  Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Test spectrum  Service life test category 2, bogie-mounted  Test frequency  fr. = 5 Hz to fr. = 250 Hz  ASD level  6.12 (m/s² ³ Hz  Acceleration  3.12 g  Test duration per axis  5 h  Test directions  X-, Y- and Z-axis  Shock test result  Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Test duration per axis  5 h  Test duration, shock test  DIN EN 50155 (VDE 0115-200):2008-03  Shock form  Half-sine  Acceleration  30g  Shock duration  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)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0942-2))  Static insulating material application in cold  -60 °C  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Specific optical density of smoke NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 162)  Test protection for rail vehicles (DIN EN 45545-2) R22  Ht. 1 - Ht. 3  Fire protection for rail vehicles (DIN EN 45545-2) R24  Ht. 1 - Ht. 3  Fire protection for rail vehicles (DIN EN 45545-2) R24  Ht. 1 - Ht. 3   | Ageing test for screwless modular terminal block temperature cycles | 192   |
| Oscillation, broadband noise test result 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 <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz ASD level 6.12 (m/s³)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30 g 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) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 662) passed Fire protection for rail vehicles (DIN EN 45545-2) R22 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) R24 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3   | Proof of thermal characteristics (needle flame) effective duration  | 30 s  |
| Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2008-03  Test spectrum  Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ ASD level $6.12 \text{ (m/s}^3)^2/\text{Hz}$ Acceleration  3.12 g  Test duration per axis  5 h  Test directions  X-, Y- and Z-axis  Shock test result  Test specification, shock test  DIN EN 50155 (VDE 0115-200):2008-03  Test duration per axis  Test directions  X-, Y- and Z-axis  Shock test result  Test perification, shock test  DIN EN 50155 (VDE 0115-200):2008-03  Half-sine  Acceleration  30g  Shock duration  Half-sine  Acceleration  30g  Shock duration  18 ms  Number of shocks per direction  3. "Y-, Y- and Z-axis (pos. and neg.)  Relative insulation material temperature index (Elec., UL 746 B)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  -60 "C  Surface flammability NFPA 130 (ASTM E 162)  passed  Specific optical density of smoke NFPA 130 (ASTM E 662)  passed  Ties protection for rail vehicles (DIN EN 45545-2) R22  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) R24  HL 1 - HL 3  Fire protection for rail vehicles (DIN EN 45545-2) R24  HL 1 - HL 3   | Result of aging test  | Test passed                                   |
| Test spectrum         Service life test category 2, bogie-mounted           Test frequency         f₁ = 5 Hz to f₂ = 250 Hz           ASD level         6.12 (m/s²²²/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           Surface flammability NFPA 130 (ASTM E 162)         passed           Specific optical density of smoke NFPA 130 (ASTM E 662)         passed           Smoke gas toxicity NFPA 130 (SMP 800C)         passed           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     <   | Oscillation, broadband noise test result                            | Test passed                                   |
| Test frequency  ASD level  ACCELERATION  AC                      | Test specification, oscillation, broadband noise                    | DIN EN 50155 (VDE 0115-200):2008-03           |
| ASD level  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  30 g  Shock duration  18 ms  Number of shocks per direction  3 test directions  X-, Y- and Z-axis (pos. and neg.)  Temperature index of insulation material temperature index (Elec., UL 746 B)  Temperature index of insulation material application in cold  Sufface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  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) R24  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) R24  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) R24  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) R24  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) R24  HL 1 - HL 3  Fire protection for rail vehicles (DIN EN 45545-2) R24  HL 1 - HL 3  | Test spectrum   | Service life test category 2, bogie-mounted   |
| 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))  Static insulating material application in cold -60 °C  Surface flammability NFPA 130 (ASTM E 162) passed  Specific optical density of smoke NFPA 130 (ASTM E 662) passed  Smoke gas toxicity 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) R24 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) R24 HL 1 - HL 3   | Test frequency  | $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ |
| Test duration per axis  Test directions  X-, Y- and Z-axis  Shock test result  Test specification, shock test  DIN EN 50155 (VDE 0115-200):2008-03  Shock form  Acceleration  Shock duration  Half-sine  Acceleration  30g  Shock sper direction  3  Test directions  X-, Y- and Z-axis (pos. and neg.)  Relative insulation material temperature index (Elec., UL 746 B)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  Specific optical density of smoke NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 1354)  Smoke gas toxicity NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  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) R24  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) R24  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) R24  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) R24  HL 1 - HL 3  | ASD level   | 6.12 (m/s²)²/Hz                               |
| Test directions  X-, Y- and Z-axis  Shock test result  Test specification, shock test  DIN EN 50155 (VDE 0115-200):2008-03  Shock form  Acceleration  Shock duration  Number of shocks per direction  Test directions  Relative insulation material temperature index (Elec., UL 746 B)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  Specific optical density of smoke NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 1354)  Eric protection for rail vehicles (DIN EN 45545-2) R22  Fire protection for rail vehicles (DIN EN 45545-2) R24  Fire protection for rail vehicles (DIN EN 45545-2) R24  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) R24  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) R24  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) R24  HL 1 - HL 3   | Acceleration  | 3.12 g  |
| Shock test result  Test passed  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  Relative insulation material temperature index (Elec., UL 746 B)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Specific optical density NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  Fire protection for rail vehicles (DIN EN 45545-2) R24  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) R24  HL 1 - HL 3  | Test duration per axis  | 5 h   |
| 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  7 est directions  Relative insulation material temperature index (Elec., UL 746 B)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  5 cc  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  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) R24  HL 1 - HL 3  Fire protection for rail vehicles (DIN EN 45545-2) R24  HL 1 - HL 3   | Test directions   | X-, Y- and Z-axis                             |
| Shock form  Acceleration  30g  Shock duration  18 ms  Number of shocks per direction  3  Test directions  Relative insulation material temperature index (Elec., UL 746 B)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  460 °C  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  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) R24  HL 1 - HL 3  | Shock test result   | Test passed                                   |
| 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 Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 662) passed Smoke gas toxicity NFPA 130 (SMP 800C) passed 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  | Test specification, shock test                                      | DIN EN 50155 (VDE 0115-200):2008-03           |
| Shock duration  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))  Static insulating material application in cold  -60 °C  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  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   | Shock form  | Half-sine                                     |
| Number of shocks per direction  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))  Static insulating material application in cold  -60 °C  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3  Fire protection for rail vehicles (DIN EN 45545-2) R24  HL 1 - HL 3   | Acceleration  | 30g   |
| 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))  Static insulating material application in cold  -60 °C  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  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) R24  HL 1 - HL 3  | Shock duration  | 18 ms   |
| Relative insulation material temperature index (Elec., UL 746 B)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  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) R24  HL 1 - HL 3  | Number of shocks per direction                                      | 3   |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold -60 °C  Surface flammability NFPA 130 (ASTM E 162) passed  Specific optical density of smoke NFPA 130 (ASTM E 662) passed  Smoke gas toxicity NFPA 130 (SMP 800C) passed  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  | Test directions   | X-, Y- and Z-axis (pos. and neg.)             |
| Static insulating material application in cold  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  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) R24  HL 1 - HL 3   | Relative insulation material temperature index (Elec., UL 746 B)    | 130 °C  |
| Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  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) R24  HL 1 - HL 3   | · · · · · · · · · · · · · · · · · · ·                               | 125 °C  |
| Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  Fire protection for rail vehicles (DIN EN 45545-2) R23  Fire protection for rail vehicles (DIN EN 45545-2) R24  HL 1 - HL 3  Fire protection for rail vehicles (DIN EN 45545-2) R24  HL 1 - HL 3  | Static insulating material application in cold                      | -60 °C  |
| Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  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  | Surface flammability NFPA 130 (ASTM E 162)                          | passed  |
| 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  | Specific optical density of smoke NFPA 130 (ASTM E 662)             | passed  |
| 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  | Smoke gas toxicity NFPA 130 (SMP 800C)                              | passed  |
| 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   | Calorimetric heat release NFPA 130 (ASTM E 1354)                    | 27,5 MJ/kg                                    |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 HL 1 - HL 3   | 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) R26 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            | 5.2 mm  |
|------------------|---------|
| End cover width  | 2.2 mm  |
| Length           | 93.5 mm |
| Height NS 35/7,5 | 51.5 mm |



## Technical data

## Dimensions

| Height NS 35/15 | 59 mm   |
|-----------------|---------|
| Height          | 51.2 mm |

### Connection data

| Note   | Please observe the current carrying capacity of the DIN rails. |
|--|--|
| Connection   | 1st, 2nd and 3rd level   |
| Connection method  | Screw connection   |
| Screw thread   | M3   |
| Stripping length   | 9 mm   |
| Tightening torque, min   | 0.5 Nm   |
| Tightening torque max  | 0.6 Nm   |
| Conductor cross section solid min.   | 0.2 mm²  |
| Conductor cross section solid max.   | 4 mm²  |
| Conductor cross section AWG min.   | 24   |
| Conductor cross section AWG max.   | 12   |
| Conductor cross section flexible min.  | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.  | 4 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible   | 24   |
| Max. AWG conductor cross section, flexible   | 12   |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.25 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 2.5 mm²  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.25 mm²   |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid min.   | 0.2 mm²  |
| 2 conductors with same cross section, solid max.   | 1.5 mm²  |
| 2 conductors with same cross section, stranded min.  | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.  | 1.5 mm²  |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm²  |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 0.75 mm²   |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum  | 0.25 mm²   |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum  | 0.75 mm²   |
| Internal cylindrical gage  | A3   |

## Standards and Regulations

| Flammability rating according to UL 94 | V0 |
|--|----|

## **Environmental Product Compliance**

| REACh SVHC | Lead 7439-92-1                                 |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 50 years |



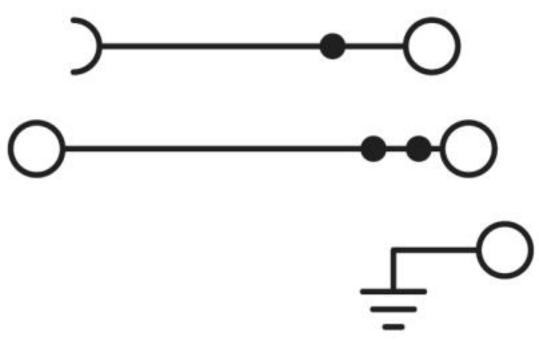
## Technical data

## **Environmental Product Compliance**

| Category "Manufacturer's declaration" |  | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |
|---------------------------------------|--|---|
|---------------------------------------|--|---|

## Drawings





## Classifications

## eCl@ss

| eCl@ss 10.0.1 | 27141125 |
|---------------|----------|
| eCl@ss 4.0    | 27141100 |
| eCl@ss 4.1    | 27141100 |
| eCl@ss 5.0    | 27141100 |
| eCl@ss 5.1    | 27141100 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141125 |
| eCl@ss 8.0    | 27141125 |
| eCl@ss 9.0    | 27141125 |

## **ETIM**

| ETIM 3.0 | EC000897 |
|----------|----------|
| ETIM 4.0 | EC001329 |
| ETIM 5.0 | EC001329 |
| ETIM 6.0 | EC001329 |



## Classifications

## **ETIM**

| ETIM 7.0      | EC001329 |
|---------------|----------|
| UNSPSC        |          |
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |

39121410

39121410

## Approvals

UNSPSC 20.0

UNSPSC 21.0

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / IECEE CB Scheme / VDE Zeichengenehmigung / EAC / EAC / cULus Recognized

Ex Approvals

## Approval details

| CSA                | <b>(3P</b> | http://www.csagroup.org/services-indus | stries/product-listing/ 13631 |
|--------------------|------------|--|-------------------------------|
|                    |            | В                                      | D                             |
| Nominal voltage UN |            | 300 V                                  | 300 V                         |
| mm²/AWG/kcmil      |            | 24-12                                  | 24-12                         |

| UL Recognized      | http://database.ul.c | om/cgi-bin/XYV/template/LISEXT/1FR | AME/index.htm FILE E 60425 |
|--------------------|----------------------|------------------------------------|----------------------------|
|                    | В                    | С                                  | D                          |
| Nominal voltage UN | 300 V                | 300 V                              |                            |
| Nominal current IN | 20 A                 | 10 A                               | 1                          |
| mm²/AWG/kcmil      | 26-12                | 26-12                              | 26-12                      |



## Approvals

| cUL Recognized     | http://database.t | ul.com/cgi-bin/XYV/template/LISEXT/1FR | AME/index.htm | FILE E 60425 |
|--------------------|-------------------|--|---------------|--------------|
|                    | В                 | С                                      | D             |              |
| Nominal voltage UN | 300 V             | 300 V                                  |               |              |
| Nominal current IN | 20 A              | 10 A                                   | ]             |              |
| mm²/AWG/kcmil      | 26-12             | 26-12                                  | 26-12         |              |

| IECEE CB Scheme | <b>CB</b> scheme | http://www.iecee.org/ | DE1-60116 |
|-----------------|------------------|-----------------------|-----------|
|-----------------|------------------|-----------------------|-----------|

| VDE Zeichengenehmigung | ĎŶĒ | • | w2.vde.com/de/Institut/Online-Service/<br>uefteProdukte/Seiten/Online-Suche.aspx | 40040774 |
|------------------------|-----|---|--|----------|
|                        |     |   |  |          |
| Nominal voltage UN     |     |   | 400 V  |          |
| Nominal current IN     |     |   | 21 A   |          |

| EAC | EAC | RU C-<br>DE.A*30.B.01742 |
|-----|-----|--------------------------|
|-----|-----|--------------------------|

| EAC EHI | RU C-<br>DE.BL08.B.00534 |
|---------|--------------------------|
| LIIL    |                          |

| decognized CSUs |  |
|-----------------|--|
|-----------------|--|

### Accessories

Accessories

Bridge

Wire bridge - FBSW 2-5/250MM - 3030172



Wire bridge, length: 250 mm, width: 5.1 mm, number of positions: 1, color: red/black



### Accessories

Wire bridge - FBSW 2-5/60MM - 3030170



Wire bridge, length: 60 mm, width: 5.1 mm, number of positions: 1, color: red/black

Wire bridge - FBSW 2-5/110MM - 3030171



Wire bridge, length: 110 mm, width: 5.1 mm, number of positions: 1, color: red/black

#### Cover profile

Cover profile - AP-NLS N - 1013634



Cover profile, length: 300 mm, color: transparent

#### DIN rail

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



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver



### Accessories

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



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver



### Accessories

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

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 perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver



### Accessories

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored



### Accessories

End cap - NS 35/15 CAP - 1206573



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

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



DIN rail, unperforated, Standard profile 2.3 mm, width: 35 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

#### 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: grav

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 cover



### Accessories

End cover - D-UTI/3 - 3076036



End cover, length: 93.5 mm, width: 2.2 mm, height: 51.2 mm, color: gray

#### Installation terminal block

Connection terminal block - AKG 16 BU - 0423014



Connection terminal block, connection method: Screw connection, load current: 76 A, cross section: 1.5 mm² - 16 mm², width: 9.8 mm, color: blue

Connection terminal block - AKG 35 BU - 0424013



Connection terminal block, connection method: Screw connection, load current: 125 A, cross section: 2.5 mm² - 35 mm², width: 14.3 mm, color: blue

#### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red





### Accessories

Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



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



Jumper



### Accessories

Plug-in bridge - FBS 2-5 - 3030161



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 9 mm, number of positions: 2, color: red

Plug-in bridge - FBS 3-5 - 3030174



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 14.2 mm, number of positions: 3, color: red

Plug-in bridge - FBS 4-5 - 3030187



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 19.4 mm, number of positions: 4, color: red

Plug-in bridge - FBS 5-5 - 3030190



Plug-in bridge, pitch: 5.2 mm, length: 23 mm, width: 24.6 mm, number of positions: 5, color: red

Plug-in bridge - FBS 10-5 - 3030213



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 50.6 mm, number of positions: 10, color: red



### Accessories

Plug-in bridge - FBS 20-5 - 3030226



Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: red

Plug-in bridge - FBS 50-5 - 3038930



Plug-in bridge, pitch: 5.2 mm, number of positions: 50, color: red

Plug-in bridge - FBSR 2-5 - 3033702



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: red

Plug-in bridge - FBSR 3-5 - 3001591



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, color: red

Plug-in bridge - FBSR 4-5 - 3001592



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, color: red



### Accessories

Plug-in bridge - FBSR 5-5 - 3001593



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, color: red

Plug-in bridge - FBSR 10-5 - 3033710



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, color: red

Plug-in bridge - FBS 2-5 BU - 3036877



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: blue

Plug-in bridge - FBS 3-5 BU - 3036880



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, color: blue

Plug-in bridge - FBS 4-5 BU - 3036893



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, color: blue



### Accessories

Plug-in bridge - FBS 5-5 BU - 3036903



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, color: blue

Plug-in bridge - FBS 10-5 BU - 3036916



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, color: blue

Plug-in bridge - FBS 20-5 BU - 3036929



Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: blue

Plug-in bridge - FBS 50-5 BU - 3032114



Plug-in bridge, pitch: 5.2 mm, number of positions: 50, color: blue

#### Labeled terminal marker

Zack Marker strip, flat - ZBF 5 CUS - 0825025



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10



#### Accessories

Zack Marker strip, flat - ZBF 5,LGS:FORTL.ZAHLEN - 0808671



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

#### Zack Marker strip, flat - ZBF 5,QR:FORTL.ZAHLEN - 0808697



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

#### Zack Marker strip, flat - ZBF 5,LGS:GERADE ZAHLEN - 0810821



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers  $2 \dots 20$ ,  $22 \dots 40$ , etc. up to  $82 \dots 100$ , mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size:  $5.15 \times 5.15 \text{ mm}$ , Number of individual labels: 10 mm

#### Zack Marker strip, flat - ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

#### Marker for terminal blocks - UC-TMF 5 CUS - 0824638



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96



### Accessories

Marker for terminal blocks - UCT-TMF 5 CUS - 0829658



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

#### Neutral conductor rail

Neutral busbar - NLS-CU 3/10 SN 1000MM - 0402174



Neutral busbar, width: 10 mm, height: 3 mm, DIN VDE 0611-4: 1991-02, material: Copper, tin-plated, length: 1000 mm, color: silver

#### Partition plate

Partition plate - ATP-PTI/3 - 3213990



Partition plate, length: 103 mm, width: 2.2 mm, height: 49.3 mm, color: gray

Spacer plate - DP PS-5 - 3036725



Spacer plate, length: 22.4 mm, width: 5.2 mm, height: 29 mm, number of positions: 1, color: red

### Planning and marking software

Software - CLIP-PROJECT ADVANCED - 5146040



Multilingual software for convenient configuration of Phoenix Contact products on standard DIN rails.



#### Accessories

Software - CLIP-PROJECT PROFESSIONAL - 5146053



Multilingual software for terminal strip configuration. A marking module enables the professional marking of markers and labels for identifying terminal blocks, conductors and cables, and devices.

#### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

#### Support

Support bracket - AB-UTI/3 - 3076038



Support bracket, Bracket for busbars, set every 20 cm, pitch: 200 mm, length: 93.5 mm, width: 2.2 mm, height: 51.2 mm, number of positions: 1, color: blue

#### Terminal marking

Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TMF 5 - 0818153



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96



### Accessories

Marker for terminal blocks - UCT-TMF 5 - 0828744



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into flat marker groove, for terminal block width: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

#### Test plug terminal block

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, color: gray

Test plugs - PS-5 - 3030983



Test plugs, Modular test plug, color: red

Test plugs - PS-5/2,3MM RD - 3038723



Test plugs, color: red

#### Test socket

Test adapter - PAI-4-FIX-5/6 BU - 3035975



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch



### Accessories

Test adapter - PAI-4-FIX-5/6 OG - 3035974



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test adapter - PAI-4-FIX-5/6 YE - 3035977



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test adapter - PAI-4-FIX-5/6 RD - 3035976



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test adapter - PAI-4-FIX-5/6 GN - 3035978



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test adapter - PAI-4-FIX-5/6 BK - 3035980



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch



### Accessories

Test adapter - PAI-4-FIX-5/6 GY - 3035982



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test adapter - PAI-4-FIX-5/6 VT - 3035979



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test adapter - PAI-4-FIX-5/6 BN - 3035981



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

Test adapter - PAI-4-FIX-5/6 WH - 3035983



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

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