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Feed-through terminal block, Connection method: Screw connection, Cross section: 1.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, AWG: 16 - 4, Width: 12.2 mm, Height: 54.4 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

#### **Product Features**

- The reducing bridges can be used to connect terminal blocks with different connection technologies, e.g., UT 35 screw terminal block with Push-in technology 2,5 Push-in terminal blocks, to form power blocks
- Easy and time-saving potential supply and distribution of large currents and cross sections up to 35 mm² with reducing bridges
- The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"
- Tested for railway applications



## **Key Commercial Data**

| Packing unit                         | 1 pc     |
|--------------------------------------|----------|
| Minimum order quantity               | 50 pc    |
| Weight per Piece (excluding packing) | 30.0 g   |
| Custom tariff number                 | 85369010 |
| Country of origin                    | Turkey   |

#### Technical data

#### General

| Number of levels                       | 1                  |  |
|--|--------------------|--|
| Number of connections                  | 2                  |  |
| Nominal cross section                  | 16 mm <sup>2</sup> |  |
| Color                                  | gray               |  |
| Insulating material                    | PA                 |  |
| Flammability rating according to UL 94 | V0                 |  |
| Area of application                    | Railway industry   |  |



## Technical data

## General

| Machine duning   Plant engineering   Plant engineering   Process industry   Process ind   | Control  | Marking building                            |  |  |
|--|--|---|--|--|
| Rated surge voltage         Process industry           Rated surge voltage         8 kV           Degree of pollution         3           Overvoltage category         III           Insulating material group         IEC 60947-7-1           Connection in acc, with standard         161 6 (6947-7-1)           Maximum load current         101 A (with 25 mm² conductor cross section)           Nominal current I <sub>k</sub> 76 A           Nominal voltage U <sub>k</sub> 1000 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         9.8 kV           Result of power-frequency withstand voltage setpoin         2.2 kV           Result of the test for mechanical stability of terminal points (5 x conductor connection)         2.2 kV           Result of bending test trotation speed         10 rpm           Bending test tours         135           Bending test conductor cross section weight         1.5 mm² / 0.4 kg           Bending test conductor cross section tensile test         1.5 mm² / 0.4 kg           Ten   |  | Machine building                            |  |  |
| Rated surge voltage         8 kV           Degree of pollution         3           Overvoltage category         III           Insulating material group         I C           Connection in acc. with standard         IEC 60947-7-1           Maximum load current         101 A (with 25 mm² conductor cross section)           Nominal current I <sub>k</sub> 76 A           Nominal voltage U <sub>k</sub> 1000 V           Open side panel         Yes           Shock protection test specification         DIN EN 50274 (VDE 0660-514):2002-11           Back of the hand 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 bending test         Test passed           Bending test rotation speed         10 rpm           Bending test rotation speed         10 rpm           Bending test tonation speed         15 rm² / 0.4 kg           Bending test conductor cross section/weight         1.5 rm² / 0.4 kg           Test passed         Conductor cross section tensile test           Test passed         Test passed   |  |   |  |  |
| Degree of pollution         3           Overvoltage category         III           Insulating material group         IEC 60947-7-1           Connection in acc, with standard         IEC 60947-7-1           Maximum load current         101 A (with 25 mm² conductor cross section)           Nominal current l <sub>kl</sub> 76 A           Nominal voltage U <sub>kl</sub> 1000 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           Finger protection         guaranteed           Finger protection sever frequency withstand voltage test         Test passed           Surge voltage test setpoint         9.8 kV           Result of surge voltage test setpoint         2.2 kV           Result of the test for mechanical stability of terminal points (5 x conductor         Test passed           Power frequency withstand voltage setpoint         2.2 kV           Result of bending test         Test passed           Bending test truns         10 rpm           Bending test truns         15 mm² / 0.4 kg           Bending test conductor cross section/weight         1.5 mm² / 0.4 kg           Tensile test result<   |  | -   |  |  |
| Overvoltage category         III           Insulating material group         I           Connection in acc. with standard         IEC 60947-7-1           Maximum load current I <sub>N</sub> 76 A           Nominal voltage U <sub>N</sub> 1000 V           Open side panel         Yes           Shock protection test specification         DIN EN 50274 (VDE 0860-514)-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 setpoint         2.2 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 conductor cross section/weight         1.5 mm² / 0.4 kg           Bending test conductor cross section/weight         1.5 mm² / 0.4 kg           Test passed         Conductor cross section tensile test           Conductor cross section tensile test         1.5 mm²           Tractive force setpoint         40 N           Conductor cross section tensile test         16 mm²  | Rated surge voltage                              |   |  |  |
| Insulating material group         I           Connection in acc. with standard         IEC 60947-7-1           Maximum load current         101 A (with 25 mm² conductor cross section)           Nominal ourrent I <sub>N</sub> 76 A           Nominal outrent I <sub>N</sub> 1000 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           Finger protection         guaranteed           Surge voltage test setpoint         7est passed           Surge voltage test setpoint         7est passed           Result of power-frequency withstand voltage steption         2.2 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 conductor cross section/weight         1.5 mm² / 0.4 kg           Tensile test result         7est passed           Tensile test result  | Degree of pollution                              | 3   |  |  |
| Connection in acc. with standard         IEC 60947-7-1           Maximum load current         101 A (with 25 mm² conductor cross section)           Nominal current I <sub>N</sub> 76 A           Nominal voltage U <sub>N</sub> 1000 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 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 bending test         Test passed           Bending test rotation speed         10 rpm           Bending test torolicctor cross section/weight         1.5 mm² / 0.4 kg           Bending test conductor cross section/weight         1.5 mm² / 0.4 kg           Tensile test result         Test passed           Conductor cross section tensile test         1.5 mm²           Tensile test result         16 mm² / 2.9 kg           Tensile test result         40 N           Conductor cross section tensile test   | Overvoltage category                             | III   |  |  |
| Maximum load current In         101 A (with 25 mm² conductor cross section)           Nominal current In         76 A           Nominal voltage Un         1000 V           Open side panel         Yes           Shock protection test specification         DIN EN 50274 (VDE 0680-514):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 setpoint         2.2 kV           Result of the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Result of the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Result of bending test         Test passed           Bending test trotation speed         10 rpm           Bending test turns         135           Bending test conductor cross section/weight         1.5 mm² / 0.4 kg           Bending test conductor cross section/weight         1.5 mm² / 4.5 kg           Tensile test result         Test passed           Conductor cross section tensile test         1.5 mm²           Conductor cross section tensile test         1.5 mm²           Tractiv  | Insulating material group                        | I   |  |  |
| Nominal current In         76 A           Nominal voltage Un         1000 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         9.8 kV           Result of power-frequency withstand voltage sets in the test for mechanical stability of terminal points (5 x conductors)         Test passed           Power frequency withstand voltage setpoint         2.2 kV           Result of the test for mechanical stability of terminal points (5 x conductor or set passed         Test passed           Result of bending test         Test passed           Bending test rotation speed         10 rpm           Bending test turns         135           Bending test conductor cross section/weight         1.5 mm² / 0.4 kg           Tensile test result         Test passed           Conductor cross section tensile test         1.5 mm²           Tractive force setpoint         40 N           Conductor cross section tensile test         16 mm²           Tractive force setpoint         100 N           Conductor cross section tensile test         1   | Connection in acc. with standard                 | IEC 60947-7-1                               |  |  |
| Nominal voltage Un         1000 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           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 bending test         Test passed           Bending test rotation speed         10 rpm           Bending test turns         135           Bending test conductor cross section/weight         1.5 mm² / 0.4 kg           Tensile test result         Test passed           Conductor cross section tensile test         1.5 mm²           Tractive force setpoint         40 N           Conductor cross section tensile test         1.5 mm²           Tractive force setpoint         100 N           Conductor cross section tensile test         25 mm²           Tractive force setpoint <td>Maximum load current</td> <td>101 A (with 25 mm² conductor cross section)</td>  | Maximum load current                             | 101 A (with 25 mm² conductor cross section) |  |  |
| 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         9.8 kV           Result of power-frequency withstand voltage test         1 set 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 bending test         10 rpm           Bending test troation speed         10 rpm           Bending test troation speed         1.5 mm² / 0.4 kg           Bending test conductor cross section/weight         1.5 mm² / 0.4 kg           Test passed         15 mm² / 0.4 kg           Tensile test result         Test passed           Conductor cross section tensile test         1.5 mm²           Conductor cross section tensile test         1.5 mm²           Tractive force setpoint         40 N           Conductor cross section tensile test         100 N           Conductor cross section tensile test         25 mm²           Tractive force setpoint         135 N   | Nominal current I <sub>N</sub>                   | 76 A  |  |  |
| 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 bending test       Test passed         Bending test rotation speed       10 rpm         Bending test conductor cross section/weight       1.5 mm² / 0.4 kg         Bending test conductor cross section/weight       1.5 mm² / 0.4 kg         Tensile test result       Test passed         Conductor cross section tensile test       1.5 mm²         Tractive force setpoint       40 N         Conductor cross section tensile test       16 mm²         Tractive force setpoint       100 N         Conductor cross section tensile test       25 mm²         Tractive force setpoint       135 N         Result of tight fit on support       Test passed  | Nominal voltage U <sub>N</sub>                   | 1000 V                                      |  |  |
| 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 bending test       Test passed         Bending test rotation speed       10 rpm         Bending test turns       135         Bending test conductor cross section/weight       1.5 mm² / 0.4 kg         Tensile test result       25 mm² / 4.5 kg         Tensile test result       Test passed         Conductor cross section tensile test       1.5 mm²         Tractive force setpoint       40 N         Conductor cross section tensile test       16 mm²         Tractive force setpoint       100 N         Conductor cross section tensile test       25 mm²         Tractive force setpoint       135 N         Result of tight fit on support       Test passed  | Open side panel                                  | Yes   |  |  |
| Finger protection guaranteed  Result of surge voltage test  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Ending test rotation speed  Bending test rotation speed  Bending test conductor cross section/weight  1.5 mm² / 0.4 kg  Bending test result  Test passed  16 mm² / 2.9 kg  Tensile test result  Test passed  Conductor cross section tensile test  1.5 mm²  Tractive force setpoint  Conductor cross section tensile test  16 mm²  Tractive force setpoint  Conductor cross section tensile test  Test passed  Test passed  Test passed  Tractive force setpoint  Conductor cross section tensile test  Test passed  Tractive force setpoint  Tractive force setpoint  Tractive force setpoint  Tractive force setpoint  Test passed  | Shock protection test specification              | DIN EN 50274 (VDE 0660-514):2002-11         |  |  |
| Result of surge voltage test Surge voltage test setpoint Surge voltage test setpoint Result of power-frequency withstand voltage test Power frequency withstand voltage setpoint Sesult of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test Test passed  Result of bending test Bending test rotation speed Bending test turns Bending test conductor cross section/weight 1.5 mm² / 0.4 kg 16 mm² / 2.9 kg  Testi passed  Testi passed  Test passed  Test passed  1.5 mm² / 4.5 kg  Testi passed  Conductor cross section tensile test 1.5 mm²  Tractive force setpoint 40 N  Conductor cross section tensile test 16 mm²  Tractive force setpoint 100 N  Conductor cross section tensile test 25 mm²  Tractive force setpoint 135 N  Result of tight fit on support Tight fit on carrier  | Back of the hand protection                      | guaranteed                                  |  |  |
| 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 bending test       Test passed         Bending test rotation speed       10 rpm         Bending test conductor cross section/weight       1.5 mm² / 0.4 kg         Bending test result       25 mm² / 4.5 kg         Tensile test result       Test passed         Conductor cross section tensile test       1.5 mm²         Tractive force setpoint       40 N         Conductor cross section tensile test       16 mm²         Tractive force setpoint       100 N         Conductor cross section tensile test       25 mm²         Tractive force setpoint       135 N         Result of tight fit on support       Test passed         Tight fit on carrier       NS 35   | Finger protection                                | guaranteed                                  |  |  |
| Result of power-frequency withstand voltage test Power frequency withstand voltage setpoint Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test Test passed  Bending test rotation speed Bending test turns Bending test conductor cross section/weight 1.5 mm² / 0.4 kg  Bending test conductor cross section/weight 1.6 mm² / 2.9 kg  Test passed  Conductor cross section tensile test 1.5 mm²  Tractive force setpoint Conductor cross section tensile test 1.6 mm²  Tractive force setpoint 100 N  Conductor cross section tensile test 1.5 mm²  Tractive force setpoint 1.5 mm² | Result of surge 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 bending test       Test passed         Bending test rotation speed       10 rpm         Bending test turns       135         Bending test conductor cross section/weight       1.5 mm² / 0.4 kg         16 mm² / 2.9 kg       25 mm² / 4.5 kg         Tensile test result       Test passed         Conductor cross section tensile test       1.5 mm²         Tractive force setpoint       40 N         Conductor cross section tensile test       16 mm²         Tractive force setpoint       100 N         Conductor cross section tensile test       25 mm²         Tractive force setpoint       135 N         Result of tight fit on support       Test passed         Tight fit on carrier       NS 35  | Surge voltage test setpoint                      | 9.8 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       1.5 mm² / 0.4 kg         Image: Insult of the test result in the stability of terminal points (5 x conductor cross section tensile test in the stability of terminal points (5 x conductor cross section tensile test in the stability of terminal points (5 x conductor cross section tensile test in the stability of terminal points (5 x conductor cross section tensile test in the stability of terminal points (5 x conductor cross section tensile test in the stability of terminal points (5 x conductor cross section tensile test in the stability of terminal points (5 x conductor cross section tensile test in the stability of terminal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test in the stability of tempinal points (5 x conductor cross section tensile test   | Result of power-frequency withstand voltage test | Test passed                                 |  |  |
| connection)  Result of bending test  Bending test rotation speed  Bending test turns  Bending test turns  Bending test conductor cross section/weight  1.5 mm² / 0.4 kg  16 mm² / 2.9 kg  25 mm² / 4.5 kg  Tensile test result  Test passed  Conductor cross section tensile test  1.5 mm²  Tractive force setpoint  Conductor cross section tensile test  100 N  Conductor cross section tensile test  Tractive force setpoint  Conductor cross section tensile test  1.5 mm²  Tractive force setpoint  Tractive force setpoint  100 N  Conductor cross section tensile test  135 N  Result of tight fit on support  Test passed  Tight fit on carrier  NS 35   | Power frequency withstand voltage setpoint       | 2.2 kV                                      |  |  |
| Bending test rotation speed Bending test turns 135 Bending test conductor cross section/weight 1.5 mm² / 0.4 kg 16 mm² / 2.9 kg 25 mm² / 4.5 kg Tensile test result Test passed Conductor cross section tensile test 1.5 mm² Tractive force setpoint 40 N Conductor cross section tensile test 16 mm² Tractive force setpoint 100 N Conductor cross section tensile test 25 mm² Tractive force setpoint 100 N Conductor cross section tensile test 135 N Result of tight fit on support Test passed Tight fit on carrier NS 35   |  | Test passed                                 |  |  |
| Bending test turns  Bending test conductor cross section/weight  1.5 mm² / 0.4 kg  16 mm² / 2.9 kg  25 mm² / 4.5 kg  Tensile test result  Test passed  Conductor cross section tensile test  1.5 mm²  Tractive force setpoint  Conductor cross section tensile test  16 mm²  Tractive force setpoint  100 N  Conductor cross section tensile test  Tractive force setpoint  135 N  Result of tight fit on support  Tight fit on carrier  135 N   | Result of bending test                           | Test passed                                 |  |  |
| Bending test conductor cross section/weight  1.5 mm² / 0.4 kg  16 mm² / 2.9 kg  25 mm² / 4.5 kg  Tensile test result  Test passed  Conductor cross section tensile test  1.5 mm²  Tractive force setpoint  40 N  Conductor cross section tensile test  16 mm²  Tractive force setpoint  100 N  Conductor cross section tensile test  25 mm²  Tractive force setpoint  100 N  Conductor cross section tensile test  25 mm²  Tractive force setpoint  NS 35   | Bending test rotation speed                      | 10 rpm                                      |  |  |
| 16 mm² / 2.9 kg25 mm² / 4.5 kgTensile test resultTest passedConductor cross section tensile test1.5 mm²Tractive force setpoint40 NConductor cross section tensile test16 mm²Tractive force setpoint100 NConductor cross section tensile test25 mm²Tractive force setpoint135 NResult of tight fit on supportTest passedTight fit on carrierNS 35   | Bending test turns                               | 135   |  |  |
| Tensile test result Test passed Conductor cross section tensile test 1.5 mm²  Tractive force setpoint 40 N  Conductor cross section tensile test 16 mm²  Tractive force setpoint 100 N  Conductor cross section tensile test 25 mm²  Tractive force setpoint 135 N  Result of tight fit on support Test passed Tight fit on carrier NS 35  | Bending test conductor cross section/weight      | 1.5 mm² / 0.4 kg                            |  |  |
| Tensile test result  Conductor cross section tensile test  1.5 mm²  Tractive force setpoint  40 N  Conductor cross section tensile test  16 mm²  Tractive force setpoint  100 N  Conductor cross section tensile test  25 mm²  Tractive force setpoint  135 N  Result of tight fit on support  Tight fit on carrier  NS 35   |  | 16 mm² / 2.9 kg                             |  |  |
| Conductor cross section tensile test  Tractive force setpoint  Conductor cross section tensile test  16 mm²  Tractive force setpoint  100 N  Conductor cross section tensile test  25 mm²  Tractive force setpoint  135 N  Result of tight fit on support  Tight fit on carrier  NS 35   |  | 25 mm² / 4.5 kg                             |  |  |
| Tractive force setpoint  Conductor cross section tensile test  16 mm²  Tractive force setpoint  100 N  Conductor cross section tensile test  25 mm²  Tractive force setpoint  135 N  Result of tight fit on support  Tight fit on carrier  NS 35   | Tensile test result                              | Test passed                                 |  |  |
| Conductor cross section tensile test  Tractive force setpoint  100 N  Conductor cross section tensile test  25 mm²  Tractive force setpoint  135 N  Result of tight fit on support  Tight fit on carrier  NS 35  | Conductor cross section tensile test             | 1.5 mm²                                     |  |  |
| Tractive force setpoint  Conductor cross section tensile test  25 mm²  Tractive force setpoint  135 N  Result of tight fit on support  Tight fit on carrier  NS 35   | Tractive force setpoint                          | 40 N  |  |  |
| Conductor cross section tensile test 25 mm²  Tractive force setpoint 135 N  Result of tight fit on support Test passed  Tight fit on carrier NS 35   | Conductor cross section tensile test             | 16 mm²                                      |  |  |
| Tractive force setpoint 135 N  Result of tight fit on support Test passed  Tight fit on carrier NS 35  | Tractive force setpoint                          | 100 N                                       |  |  |
| Result of tight fit on support Test passed  Tight fit on carrier NS 35   | Conductor cross section tensile test             | 25 mm²                                      |  |  |
| Tight fit on carrier NS 35   | Tractive force setpoint                          | 135 N                                       |  |  |
| ·  | Result of tight fit on support                   | Test passed                                 |  |  |
| Setpoint 5 N   | Tight fit on carrier                             | NS 35                                       |  |  |
|  | Setpoint   | 5 N   |  |  |



## Technical data

## General

| 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                           | 16 mm²  |  |
| Short-time current  | 1.92 kA   |  |
| Conductor cross section short circuit testing                           | 25 mm²  |  |
| Short-time current  | 3 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 |  |
| Test frequency  | $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$       |  |
| ASD level   | 0.02 g²/Hz  |  |
| Acceleration  | 0,8 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  | 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            | 12.2 mm |
|------------------|---------|
| End cover width  | 2.2 mm  |
| Length           | 55.5 mm |
| Height           | 54.4 mm |
| Height NS 35/7,5 | 55 mm   |
| Height NS 35/15  | 62.5 mm |

## Connection data

|                   | I                |
|-------------------|------------------|
| Connection method | Screw connection |
|                   |                  |



## Technical data

## Connection data

| Note Product releases, connection cross section and notes on connecting aluminum cables can be found in the download area.  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section AWG min.  Conductor cross section AWG max.  Conductor cross section flexible min.  Conductor cross section flexible min.  Conductor cross section flexible min.  Conductor cross section flexible max.  Min. AWG conductor cross section, flexible  Min. AWG conductor cross section, flexible  Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor side same cross section, solid min.  1 mm²  Conductors with same cross section, solid min.  2 conductors with same cross section, stranded min.  1 mm²  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded, firrules with plastic sleeve, min.  2 conductors with same cross section, stranded, firrules with plastic sleeve, min.  2 conductors with same cross section, stranded, firrules without plastic sleeve, min.  2 conductor swith same cross section, stranded, firrules without plastic sleeve, min.  1 conductor cross section solid min.  1 conductor c | Connection in acc. with standard   | IEC 60947-7-1                         |  |
|--|--|---------------------------------------|--|
| Conductor cross section AWG min. Conductor cross section AWG min. Conductor cross section AWG max.  Conductor cross section flexible min. 1.5 mm² Conductor cross section flexible min. Conductor cross section flexible min.  Conductor cross section flexible max. 25 mm² Min. AWG conductor cross section, flexible Max. AWG conductor cross section, flexible Max. AWG conductor cross section, flexible Max. AWG conductor cross section flexible, with ferrule without plastic sleeve min. Conductor cross section flexible, with ferrule without plastic sleeve min. Conductor cross section flexible, with ferrule with plastic sleeve min. Conductor cross section flexible, with ferrule with plastic sleeve min. Conductor cross section flexible, with ferrule with plastic sleeve min. 1 mm² Conductor cross section flexible, with ferrule with plastic sleeve max. 2 conductors with same cross section, solid min. 1 mm² 2 conductors with same cross section, stranded min. 1 mm² 2 conductors with same cross section, stranded min. 1 mm² 2 conductors with same cross section, stranded max. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 1 conductor cross section solid min. 1.5 mm² Conductor cross section solid min. 1.5 mm² Conductor cross section AWG min. 1.5 mm² Conductor cross section AWG min. 1.5 mm² Conductor cross section AWG min. 1.5 mm² Conductor cross section flexible min. 1.6 mm² Conductor |  | · · · · · · · · · · · · · · · · · · · |  |
| Conductor cross section AWG min.  Conductor cross section fexible min.  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible max.  Min. AWG conductor cross section, flexible max.  Min. AWG conductor cross section, flexible max.  Min. AWG conductor cross section, flexible  Max. AWG conductor cross section, flexible  Max. AWG conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductors sith same cross section, solid max.  Conductors with same cross section, solid max.  Conductors with same cross section, stranded max.  Conductors with same cross section, stranded max.  Conductors with same cross section, stranded max.  Conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  Conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  Conductors with same cross section, stranded, ferrules without plastic sleeve, min.  Conductors with same cross section, stranded, ferrules without plastic sleeve, min.  Conductors with same cross section, stranded, ferrules without plastic sleeve, min.  Conductors with same cross section, stranded, ferrules without plastic sleeve, min.  Conductors with same cross section, stranded, ferrules without plastic sleeve, min.  Conductors with same cross section, stranded, ferrules without plastic sleeve, min.  Conductors with same cross section, stranded, ferrules without plastic sleeve, min.  Conductors with same cross section stranded, ferrules without plastic sleeve, min.  Conductors with same cross section stranded, ferrules without plastic sleeve, min.  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section solid max.  Conductor cross section  | Conductor cross section solid min.   | 1.5 mm²                               |  |
| Conductor cross section AWG max.  Conductor cross section flexible min.  Conductor cross section flexible max.  Min. AWG conductor cross section, flexible  Max. AWG conductor cross section, flexible  Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  16 mm²  Conductor cross section flexible, with ferrule with plastic sleeve min.  1 mm²  2 conductors with same cross section, solid min.  1 mm²  2 conductors with same cross section, stranded min.  1 mm²  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same  | Conductor cross section solid max.   | 25 mm <sup>2</sup>                    |  |
| Conductor cross section flexible min.  Conductor cross section flexible max.  Min. AWG conductor cross section, flexible  Max. AWG conductor cross section, flexible  Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor with same cross section, solid min.  1 mm²  2 conductors with same cross section, solid min.  1 mm²  2 conductors with same cross section, stranded min.  1 mm²  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductor swith same cross section, stranded, ferrules without plastic sleeve, min.  4 conductor cross section solid min.  1.5 mm²  Conductor cross section solid min.  1.6 mm²  Conductor cross section solid min.  1.6 mm²  Conductor cross section solid min.  1.6 mm²  Conductor cross section flexible min.  1.6 mm²  Conductor cross section flexible min.  1.7 mm²  Conductor cross section flexible min.  1.8 mm²  Conductor cross section flexible min.  1.9 mm²  Conductor cross section flexible min.  1.1 mm²  Conductor cross section flexible min.  1.2 mm²  Conductor cross section flexible min.  1.4 mm  Internal cy | Conductor cross section AWG min.   | 16                                    |  |
| Conductor cross section flexible max.  Min. AWG conductor cross section, flexible  Max. AWG conductor cross section, flexible  Aconductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule with pulsatic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductors cross section flexible, with ferrule with plastic sleeve max.  Conductors with same cross section, solid min.  1 mm²  2 conductors with same cross section, solid max.  2 conductors with same cross section, solid max.  2 conductors with same cross section, stranded min.  1 mm²  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section solid min.  1 mm²  Conductor cross section solid min.  2 form²  Conductor cross section solid min.  1.5 mm²  Conductor cross section solid max.  2 form²  Conductor cross section fexible min.  1.5 mm²  Conductor cross sect | Conductor cross section AWG max.   | 4                                     |  |
| Min. AWG conductor cross section, flexible  Max. AWG conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve max.  16 mm²  Conductor sess section flexible, with ferrule with plastic sleeve max.  16 mm²  2 conductors with same cross section, solid min.  1 mm²  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  4 conductor cross section solid min.  1.5 mm²  Conductor cross section solid max.  2 conductor cross section solid max.  4 conductor cross section solid max.  Conductor cross section AWG min.  16 conductor cross section flexible min.  16 mm²  Conductor cross section flexible min.  17 mm²  Conductor cross section flexible min.  18 mm²  Conductor cross section flexible min.  19 mm²  Conductor cross section flexible min.  10 mm²  Conductor cross section flexible min.  11 mm²  Conductor cross section flexible min.  12 mm²  Conductor cross section flexible min.  13 mm²  Conductor cross section flexible min.  14 mm  Conductor cross section flexible min.  Conductor cross se | Conductor cross section flexible min.                                      | 1.5 mm²                               |  |
| Max. AWG conductor cross section, flexible Conductor cross section flexible, with ferrule without plastic sleeve min. Conductor cross section flexible, with ferrule without plastic sleeve max. Conductor cross section flexible, with ferrule with plastic sleeve max. Conductor cross section flexible, with ferrule with plastic sleeve max. Conductor cross section flexible, with ferrule with plastic sleeve max. Conductor cross section flexible, with ferrule with plastic sleeve max. Conductors with same cross section, solid min. Conductors with same cross section, solid max. Conductors with same cross section, solid max. Conductors with same cross section, stranded min. Conductors with same cross section, stranded max. Conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. Conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. Conductors with same cross section, stranded, ferrules without plastic sleeve, max. Conductors with same cross section, stranded, ferrules without plastic sleeve, max. Conductors with same cross section, stranded, ferrules without plastic sleeve, max. Conductor with same cross section, stranded, ferrules without plastic sleeve, max. Conductor with same cross section solid min. Connection in acc. with standard  EC/EN 60079-7  Conductor cross section solid min.  1.5 mm² Conductor cross section solid max.  25 mm² Conductor cross section solid max.  26 mm² Conductor cross section flexible min.  16 mm² Conductor cross section flexible min.  16 mm² Conductor cross section flexible max.  16 mm² Conductor cross section flexible max.  16 mm² Conductor cross section flexible max.  16 mm² Conductor cross section flexible min.  17 mm² Conductor cross section flexible min.  18 mm² Conductor cross section flexible min.  19 mm² Conductor cross section flexible min.  10 mm² Conductor cross section flexible min.  11 mm² Conductor cross section flexible min.  12 mm² Conductor cross section flexible min.  13 mm² Conductor cross section flexible min.  14 | Conductor cross section flexible max.                                      | 25 mm²                                |  |
| Conductor cross section flexible, with ferrule without plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve max.  16 mm²  Conductor cross section flexible, with ferrule with plastic sleeve max.  16 mm²  2 conductors swith same cross section, solid min.  1 mm²  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded min.  2 conductors with same cross section, stranded max.  3 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.  Conductor swith same cross section, stranded, ferrules without plastic sleeve, max.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.  Connection in acc. with standard  EC/EN 60079-7  Conductor cross section solid min.  1.5 mm²  Conductor cross section solid max.  25 mm²  Conductor cross section solid max.  4  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible max.  16 mm²  Stripping length  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min.   | Min. AWG conductor cross section, flexible                                 | 16                                    |  |
| Conductor cross section flexible, with ferrule without plastic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve max.  Conductor cross section flexible, with ferrule with plastic sleeve max.  16 mm²  1 mm²  2 conductors with same cross section, solid min.  1 mm²  2 conductors with same cross section, stranded min.  1 mm²  2 conductors with same cross section, stranded max.  5 mm²  2 conductors with same cross section, stranded max.  6 mm²  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  6 mm²  Conductor cross section solid min.  1.5 mm²  Conductor cross section solid max.  2 5 mm²  Conductor cross section AWG max.  4  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible min.  1.5 mm²  Stripping length  14 mm  Internal cylindrical gage  A7  Screw thread  M5  1; 5 Nm  | Max. AWG conductor cross section, flexible                                 | 4                                     |  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.  Conductor cross section flexible, with ferrule with plastic sleeve max.  16 mm²  2 conductors with same cross section, solid min.  1 mm²  2 conductors with same cross section, solid max.  2 conductors with same cross section, stranded min.  1 mm²  2 conductors with same cross section, stranded max.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  1 mm²  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section script stranded, ferrules without plastic sleeve, min.  1 mm²  Conductor cross section solid min.  1.5 mm²  Conductor cross section solid max.  4 conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible max.  16 mm²  Stripping length  14 mm  Internal cylindrical gage  A7  Crew thread  M5  Tightening torque, min  | Conductor cross section flexible, with ferrule without plastic sleeve min. | 1 mm²                                 |  |
| Conductor cross section flexible, with ferrule with plastic sleeve max.  2 conductors with same cross section, solid min.  2 conductors with same cross section, solid max.  3 conductors with same cross section, stranded min.  4 mm²  2 conductors with same cross section, stranded max.  5 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  5 cmm²  Conductor cross section solid min.  1.5 mm²  Conductor cross section solid min.  1.5 mm²  Conductor cross section AWG min.  4  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible min.  2.5 mm²  Conductor cross section flexible min.  2.5 mm²  Conductor cross section flexible min.  2.5 mm²  | Conductor cross section flexible, with ferrule without plastic sleeve max. | 16 mm²                                |  |
| 2 conductors with same cross section, solid max. 6 mm² 2 conductors with same cross section, stranded min. 1 mm² 2 conductors with same cross section, stranded max. 6 mm² 2 conductors with same cross section, stranded max. 6 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 2 conductors with same cross section, stranded, ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductor with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductor cross section solid min. 1.5 mm² Conductor cross section solid min. 1.5 mm² Conductor cross section solid max. 2 5 mm² Conductor cross section AWG min. 16 Conductor cross section flexible min. 1.5 mm² Conductor cross section flexible min. 1.5 mm² Conductor cross section flexible max. 16 mm² Stripping length 14 mm Internal cylindrical gage A7 Screw thread M5 Striptening torque, min   | Conductor cross section flexible, with ferrule with plastic sleeve min.    | 1 mm²                                 |  |
| 2 conductors with same cross section, solid max. 2 conductors with same cross section, stranded min. 3 conductors with same cross section, stranded max. 4 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 5 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 6 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 7 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 8 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 9 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 9 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 9 conductor with sandard 9 conductor or with standard 9 conductor cross section solid min. 9 conductor cross section solid min. 9 conductor cross section solid max. 9 conductor cross section AWG min. 9 conductor cross section AWG min. 9 conductor cross section flexible min. 9 conductor cross section flexible min. 9 conductor cross section flexible max. 9 conductor  | Conductor cross section flexible, with ferrule with plastic sleeve max.    | 16 mm²                                |  |
| 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 5 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules without plastic sleeve, max. 3 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 4 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 5 connection in acc. with standard 6 conductor cross section solid min. 6 conductor cross section solid min. 7 conductor cross section solid max. 7 conductor cross section solid max. 8 conductor cross section AWG min. 9 conductor cross section flexible min. 9 conductor cross section flexible max. 9 con | 2 conductors with same cross section, solid min.                           | 1 mm²                                 |  |
| 2 conductors with same cross section, stranded max. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 10 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 6 mm² Connection in acc. with standard IEC/EN 60079-7 Conductor cross section solid min. 1.5 mm² Conductor cross section solid max. 25 mm² Conductor cross section AWG min. 16 Conductor cross section AWG max. 4 Conductor cross section flexible min. 1.5 mm² Conductor cross section flexible min. 1.5 mm² Conductor cross section flexible max. 16 mm² Stripping length 14 mm Internal cylindrical gage A7 Screw thread M5 Tightening torque, min  0.75 mm²   | 2 conductors with same cross section, solid max.                           | 6 mm²                                 |  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.  Connection in acc. with standard  EC/EN 60079-7  Conductor cross section solid min.  1.5 mm²  Conductor cross section solid max.  Conductor cross section AWG min.  16  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible max.  16 mm²  Stripping length  14 mm  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min  2 conductor cross section sect | 2 conductors with same cross section, stranded min.                        | 1 mm²                                 |  |
| sleeve, min.  2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.  Connection in acc. with standard  EC/EN 60079-7  Conductor cross section solid min.  1.5 mm²  Conductor cross section solid max.  25 mm²  Conductor cross section AWG min.  6 conductor cross section AWG max.  4 conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible max.  16 mm²  Stripping length  14 mm  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min  10 mm²  | 2 conductors with same cross section, stranded max.                        | 6 mm²                                 |  |
| sleeve, max.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.  Connection in acc. with standard  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section AWG min.  Conductor cross section AWG min.  Conductor cross section AWG max.  4  Conductor cross section flexible min.  Conductor cross section flexible max.  Conductor cross section flexible max.  Conductor cross section flexible max.  At mm  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min  A mm  Internal cylindrical gare, min  A mm  Internal tylindrical gare, min  |  | 0.75 mm²                              |  |
| sleeve, min.  2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.  Connection in acc. with standard  EC/EN 60079-7  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section AWG min.  Conductor cross section AWG min.  Conductor cross section AWG max.  4  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible max.  4  Conductor cross section flexible max.  16 mm²  Stripping length  14 mm  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min  Annual conductor cross section flexible min.  2.5 Nm   |  | 10 mm²                                |  |
| sleeve, max.  Connection in acc. with standard  Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section AWG min.  Conductor cross section AWG max.  Conductor cross section flexible min.  Conductor cross section flexible min.  Conductor cross section flexible max.  Conductor cross section flexible max.  16 mm²  Conductor cross section flexible max.  16 mm²  Stripping length  14 mm  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min  Connection in acc. with standard  IEC/EN 60079-7  Internal cylindrical section solid max.  Internal cylindrical section solid min.  Internal cylindrical section sect |  | 1 mm²                                 |  |
| Conductor cross section solid min.  Conductor cross section solid max.  Conductor cross section AWG min.  Conductor cross section AWG max.  Conductor cross section AWG max.  4  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible max.  16 mm²  Conductor cross section flexible max.  16 mm²  Stripping length  14 mm  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min  1.5 mm²  2.5 Nm   |  | 6 mm²                                 |  |
| Conductor cross section AWG min.  Conductor cross section AWG max.  Conductor cross section AWG max.  4  Conductor cross section flexible min.  1.5 mm²  Conductor cross section flexible max.  16 mm²  Stripping length  14 mm  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min  25 mm²  4  A7  | Connection in acc. with standard   | IEC/EN 60079-7                        |  |
| Conductor cross section AWG min.  Conductor cross section AWG max.  Conductor cross section flexible min.  Conductor cross section flexible max.  Conductor cross section flexible max.  16 mm²  Stripping length  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min  16  A  4  Conductor cross section flexible min.  1.5 mm²  1.6 mm²  1.4 mm  1.4 mm  M5  Screw thread  M5  2.5 Nm  | Conductor cross section solid min.   | 1.5 mm²                               |  |
| Conductor cross section AWG max.  Conductor cross section flexible min.  Conductor cross section flexible max.  1.5 mm²  Conductor cross section flexible max.  16 mm²  Stripping length  14 mm  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min  4  A.7   | Conductor cross section solid max.   | 25 mm²                                |  |
| Conductor cross section flexible min.  Conductor cross section flexible max.  Stripping length  Internal cylindrical gage  A7  Screw thread  Tightening torque, min  1.5 mm²  16 mm²  14 mm  A7  Screw thread  M5  2.5 Nm  | Conductor cross section AWG min.   | 16                                    |  |
| Conductor cross section flexible max.  Stripping length  Internal cylindrical gage  A7  Screw thread  M5  Tightening torque, min  16 mm²  A7  A7  2.5 Nm   | Conductor cross section AWG max.   | 4                                     |  |
| Stripping length 14 mm Internal cylindrical gage A7 Screw thread M5 Tightening torque, min 2.5 Nm  | Conductor cross section flexible min.                                      | 1.5 mm²                               |  |
| Internal cylindrical gage A7 Screw thread M5 Tightening torque, min 2.5 Nm   | Conductor cross section flexible max.                                      | 16 mm²                                |  |
| Screw thread M5 Tightening torque, min 2.5 Nm  | Stripping length   | 14 mm                                 |  |
| Tightening torque, min 2.5 Nm  | Internal cylindrical gage  | A7                                    |  |
|  | Screw thread   | M5                                    |  |
| Tightening torque max 3 Nm   | Tightening torque, min   | 2.5 Nm                                |  |
|  | Tightening torque max  | 3 Nm                                  |  |



## Technical data

## Standards and Regulations

| Connection in acc. with standard       | CSA           |
|--|---------------|
|  | IEC 60947-7-1 |
| 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 |

## Approvals

## Approvals

## Approvals

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



## Approvals

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|----|----|-----|-----|-----|
| Ex | An | nro | va  | IS. |

IECEx / ATEX / UL Recognized / cUL Recognized / EAC Ex

Approvals submitted

#### Approval details

| CSA (1)            |       |       |  |  |
|--------------------|-------|-------|--|--|
|                    | В     | С     |  |  |
| mm²/AWG/kcmil      | 16-4  | 16-4  |  |  |
| Nominal current IN | 85 A  | 85 A  |  |  |
| Nominal voltage UN | 600 V | 600 V |  |  |

| UL Recognized <b>\$1</b> |       |       |  |  |
|--------------------------|-------|-------|--|--|
|                          | В     | С     |  |  |
| mm²/AWG/kcmil            | 16-4  | 16-4  |  |  |
| Nominal current IN       | 85 A  | 85 A  |  |  |
| Nominal voltage UN       | 600 V | 600 V |  |  |

| VDE Zeichengenehmigung |        |
|------------------------|--------|
|                        |        |
| mm²/AWG/kcmil          | 1.5-16 |
| Nominal current IN     | 76 A   |
| Nominal voltage UN     | 1000 V |

| cUL Recognized : 51 |      |      |
|---------------------|------|------|
|                     | В    | С    |
| mm²/AWG/kcmil       | 16-4 | 16-4 |
| Nominal current IN  | 85 A | 85 A |



## Approvals

|                        | В                  | С     |  |  |  |
|------------------------|--------------------|-------|--|--|--|
| Nominal voltage UN     | 600 V              | 600 V |  |  |  |
|                        |                    |       |  |  |  |
| GL                     |                    |       |  |  |  |
|                        |                    |       |  |  |  |
| RS                     |                    |       |  |  |  |
|                        |                    |       |  |  |  |
|                        |                    |       |  |  |  |
| IECEE CB Scheme CB     | IECEE CB Scheme CB |       |  |  |  |
|                        |                    |       |  |  |  |
| EAC                    |                    |       |  |  |  |
|                        |                    |       |  |  |  |
| EAC                    |                    |       |  |  |  |
|                        |                    |       |  |  |  |
|                        |                    |       |  |  |  |
| cULus Recognized c Sus |                    |       |  |  |  |

## Drawings

Circuit diagram

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