

## Knife disconnect terminal block - UT 4-QUATTRO-MT - 3064043

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Knife disconnect terminal block, Connection method: Screw connection, Cross section: 0.14 mm<sup>2</sup> - 6 mm<sup>2</sup>, AWG: 26 - 10, Width: 6.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

### Product Features

- ✓ Tested for railway applications
- ✓ Compact design and high current carrying capacity of 20 A

### Key commercial data

|                  |               |
|------------------|---------------|
| package_quantity | 50            |
| GTIN             | 4046356285971 |

### Technical data

#### General

|                                         |                                                                                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------|
| Note                                    | The max. load current must not be exceeded by the total current of all connected conductors. |
| Number of levels                        | 1                                                                                            |
| Number of connections                   | 4                                                                                            |
| Color                                   | gray                                                                                         |
| Insulating material                     | PA                                                                                           |
| Inflammability class according to UL 94 | V0                                                                                           |
| Area of application                     | Railway industry                                                                             |
| Area of application                     | Mechanical engineering                                                                       |
| Area of application                     | Plant engineering                                                                            |

#### General

|                                     |                                                       |
|-------------------------------------|-------------------------------------------------------|
| Maximum load current                | 20 A (with 6 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage                 | 6 kV                                                  |
| Pollution degree                    | 3                                                     |
| Surge voltage category              | III                                                   |
| Insulating material group           | I                                                     |
| Connection in acc. with standard    | IEC 60947-7-1                                         |
| Nominal current I <sub>N</sub>      | 20 A                                                  |
| Nominal voltage U <sub>N</sub>      | 500 V                                                 |
| Open side panel                     | ja                                                    |
| Shock protection test specification | DIN EN 50274 (VDE 0660-514):2002-11                   |

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## Technical data

### General

|                                                                                 |                                                     |
|---------------------------------------------------------------------------------|-----------------------------------------------------|
| Back of the hand protection                                                     | guaranteed                                          |
| Finger protection                                                               | guaranteed                                          |
| Surge voltage test setpoint                                                     | 7.3 kV                                              |
| Result of surge voltage test                                                    | Test passed                                         |
| Power frequency withstand voltage setpoint                                      | 1.89 kV                                             |
| Result of power-frequency withstand voltage test                                | Test passed                                         |
| Checking the mechanical stability of terminal points (5 x conductor connection) | Test passed                                         |
| Bending test rotation speed                                                     | 10 rpm                                              |
| Bending test turns                                                              | 135                                                 |
| Bending test conductor cross section/weight                                     | 0.14 mm <sup>2</sup> / 0.2 kg                       |
| Bending test conductor cross section/weight                                     | 4 mm <sup>2</sup> / 0.9 kg                          |
| Bending test conductor cross section/weight                                     | 6 mm <sup>2</sup> / 1.4 kg                          |
| Result of bending test                                                          | Test passed                                         |
| Conductor cross section tensile test                                            | 0.14 mm <sup>2</sup>                                |
| Tractive force setpoint                                                         | 10 N                                                |
| Conductor cross section tensile test                                            | 4 mm <sup>2</sup>                                   |
| Tractive force setpoint                                                         | 60 N                                                |
| Conductor cross section tensile test                                            | 6 mm <sup>2</sup>                                   |
| Tractive force setpoint                                                         | 80 N                                                |
| Tensile test result                                                             | Test passed                                         |
| Tight fit on carrier                                                            | NS 35                                               |
| Setpoint                                                                        | 1 N                                                 |
| Result of tight fit test                                                        | Test passed                                         |
| Result of voltage drop test                                                     | Test passed                                         |
| Temperature-rise test                                                           | Test passed                                         |
| Conductor cross section short circuit testing                                   | 2.5 mm <sup>2</sup>                                 |
| Short-time current                                                              | 0.3 kA                                              |
| Short circuit stability result                                                  | Test passed                                         |
| Proof of thermal characteristics (needle flame) effective duration              | 30 s                                                |
| Result of thermal test                                                          | Test passed                                         |
| Test specification, oscillation, broadband noise                                | DIN EN 50155 (VDE 0115-200):2008-03                 |
| Test spectrum                                                                   | Service life test category 1, class B, body mounted |
| Test frequency                                                                  | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz    |
| ASD level                                                                       | 0.02 g <sup>2</sup> /Hz                             |
| Acceleration                                                                    | 0.8 g                                               |
| Test duration per axis                                                          | 5 h                                                 |
| Test directions                                                                 | X-, Y- and Z-axis                                   |
| Oscillation, broadband noise test result                                        | Test passed                                         |
| Test specification, shock test                                                  | DIN EN 50155 (VDE 0115-200):2008-03                 |
| Shock form                                                                      | Half-sine                                           |

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## Technical data

### General

|                                                                       |                                   |
|-----------------------------------------------------------------------|-----------------------------------|
| Acceleration                                                          | 5 g                               |
| Shock duration                                                        | 30 ms                             |
| Number of shocks per direction                                        | 3                                 |
| Test directions                                                       | X-, Y- and Z-axis (pos. and neg.) |
| Shock test result                                                     | Test passed                       |
| Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21)) | 120 °C                            |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 6.2 mm  |
| Length           | 65.4 mm |
| Height NS 35/7,5 | 49.1 mm |

### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.                                                      | 6 mm <sup>2</sup>    |
| Conductor cross section AWG/kcmil min.                                                  | 26                   |
| Conductor cross section AWG/kcmil max                                                   | 10                   |
| Conductor cross section stranded min.                                                   | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.                                                   | 6 mm <sup>2</sup>    |
| Min. AWG conductor cross section, stranded                                              | 26                   |
| Max. AWG conductor cross section, stranded                                              | 10                   |
| Conductor cross section stranded, with ferrule without plastic sleeve min.              | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max.              | 4 mm <sup>2</sup>    |
| Conductor cross section stranded, with ferrule with plastic sleeve min.                 | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.                 | 4 mm <sup>2</sup>    |
| 2 conductors with same cross section, solid min.                                        | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, solid max.                                        | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.                                     | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded max.                                     | 1.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.14 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 1.5 mm <sup>2</sup>  |
| Connection method                                                                       | Screw connection     |
| Stripping length                                                                        | 9 mm                 |
| Internal cylindrical gage                                                               | A4                   |

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## Technical data

### Connection data

|                               |        |
|-------------------------------|--------|
| <b>Screw thread</b>           | M3     |
| <b>Tightening torque, min</b> | 0.6 Nm |
| <b>Tightening torque max</b>  | 0.8 Nm |

## classifications

### eCl@ss

|                   |          |
|-------------------|----------|
| <b>eCl@ss 4.0</b> | 27141199 |
| <b>eCl@ss 4.1</b> | 27141199 |
| <b>eCl@ss 5.0</b> | 27141145 |
| <b>eCl@ss 5.1</b> | 27141145 |
| <b>eCl@ss 6.0</b> | 27141120 |
| <b>eCl@ss 7.0</b> | 27141120 |
| <b>eCl@ss 8.0</b> | 27141120 |

### ETIM

|                 |          |
|-----------------|----------|
| <b>ETIM 2.0</b> | EC000886 |
| <b>ETIM 3.0</b> | EC000886 |
| <b>ETIM 4.0</b> | EC000902 |
| <b>ETIM 5.0</b> | EC000902 |

### UNSPSC

|                      |          |
|----------------------|----------|
| <b>UNSPSC 6.01</b>   | 30211827 |
| <b>UNSPSC 7.0901</b> | 39121424 |
| <b>UNSPSC 11</b>     | 39121424 |
| <b>UNSPSC 12.01</b>  | 39121424 |
| <b>UNSPSC 13.2</b>   | 39121424 |

## approvals

UL Recognized / cUL Recognized / CSA / cULus Recognized /

### Approval details

|                                                                                                          |          |          |          |
|----------------------------------------------------------------------------------------------------------|----------|----------|----------|
| <b>UL Recognized</b>  |          |          |          |
| <b>Usegroups</b>                                                                                         | <b>B</b> | <b>C</b> | <b>D</b> |
| Nominal voltage UN                                                                                       | 300 V    | 150 V    | 300 V    |
| Nominal current IN                                                                                       | 20 A     | 20 A     | 10 A     |
| mm²/AWG/kcmil                                                                                            | 26-10    | 26-10    | 26-10    |

## Knife disconnect terminal block - UT 4-QUATTRO-MT - 3064043

### approvals

| cUL Recognized  |       |       |       |
|--------------------------------------------------------------------------------------------------|-------|-------|-------|
| Usegroups                                                                                        | B     | C     | D     |
| Nominal voltage UN                                                                               | 300 V | 150 V | 300 V |
| Nominal current IN                                                                               | 20 A  | 20 A  | 10 A  |
| mm²/AWG/kcmil                                                                                    | 26-10 | 26-10 | 26-10 |

| CSA  |       |       |       |
|---------------------------------------------------------------------------------------|-------|-------|-------|
| Usegroups                                                                             | B     | C     | D     |
| Nominal voltage UN                                                                    | 300 V | 150 V | 300 V |
| Nominal current IN                                                                    | 16 A  | 16 A  | 10 A  |
| mm²/AWG/kcmil                                                                         | 26-10 | 26-10 | 26-10 |

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

### accessories

#### Screwdriver tools

SZS 0,6X3,5 - 1205053



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#### End cover

D-UT 2,5/4-QUATTRO - 3047170



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### accessories

DP PS-6 - 3036738



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### Bridge

FBS 2-6 - 3030336



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FBS 3-6 - 3030242



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FBS 4-6 - 3030255



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FBS 5-6 - 3030349



## Knife disconnect terminal block - UT 4-QUATTRO-MT - 3064043

### accessories

FBS 10-6 - 3030271



FBS 20-6 - 3030365



FBS 50-6 - 3032224



### Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



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### accessories

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



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



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



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



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



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



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### accessories

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NS 35/ 7,5 CAP - 1206560



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NS 35/15 PERF 2000MM - 1201730



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NS 35/15 UNPERF 2000MM - 1201714



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NS 35/15 WH PERF 2000MM - 0806602



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NS 35/15 WH UNPERF 2000MM - 1204135



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### accessories

NS 35/15 AL UNPERF 2000MM - 1201756



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NS 35/15 ZN PERF 2000MM - 1206599



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NS 35/15 ZN UNPERF 2000MM - 1206586



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NS 35/15 CU UNPERF 2000MM - 1201895



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NS 35/15 CAP - 1206573



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



## Knife disconnect terminal block - UT 4-QUATTRO-MT - 3064043

accessories

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### Test plug terminal block

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



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



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



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



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



## Knife disconnect terminal block - UT 4-QUATTRO-MT - 3064043

### accessories

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



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



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



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



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PS-6 - 3030996



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PS-6/2,3MM RD - 3038736



## Knife disconnect terminal block - UT 4-QUATTRO-MT - 3064043

### accessories

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#### Knife

P-DI - 3036783



P-DI GY - 3047390



P-FIX - 3038956



#### Component plug terminal block

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P-CO - 3036796



P-CO 1N4007/R-L - 3032457



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### accessories

P-CO 1N4007/L-R - 3032460



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### Fuse

P-FU 5X20 - 3036806



P-FU 5X20 LED 24 - 3036819



P-FU 5X20 LED 60 - 3036822



P-FU 5X20 LA 250 - 3036835



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### End block

## Knife disconnect terminal block - UT 4-QUATTRO-MT - 3064043

### accessories

CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



### Drawings

Circuit diagram

