# Disconnect terminal block - UT 4-HEDI-P/P - 3046252

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The illustration shows the version without test sockets

Disconnect terminal block, Connection type: Screw connection, Cross section: 0.14 mm² - 6 mm², AWG: 26 - 10, Nominal current: 20 A, Nominal voltage: 500 V, Length: 57.8 mm, Width: 6.2 mm, Color: Black/orange, Assembly: NS 35/7,5, NS 35/15

## Product Features

- An extremely compact design
- Tested for railway applications
- Test connection on both sides in safety lever

## Key commercial data

| | |
|---|---|
| **package_quantity** | 50 |
| **GTIN** | 4017918962142 |

## Technical data

### General

| | |
|---|---|
| **Number of levels** | 1 |
| **Number of connections** | 2 |
| **Color** | Black/orange |
| **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 mm² 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 $I_N$** | 20 A |
| **Nominal voltage $U_N$** | 500 V |
| **Open side panel** | nein |
| **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 mm² / 0.2 kg |
| **Bending test conductor cross section/weight** | 4 mm² / 0.9 kg |
| **Bending test conductor cross section/weight** | 6 $mm^2$ / 1.4 kg |
| **Result of bending test** | Test passed |
| **Conductor cross section tensile test** | 0.14 mm² |
| **Tractive force setpoint** | 10 N |
| **Conductor cross section tensile test** | 4 mm² |
| **Tractive force setpoint** | 60 N |
| **Conductor cross section tensile test** | 6 mm² |
| **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 mm² |
| **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** | $f_1$ = 5 Hz to $f_2$ = 150 Hz |
| **ASD level** | 0.02 $g^2$/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** | 57.8 mm |
| **Height NS 35/7,5** | 73 mm |
| **Height NS 35/15** | 80.5 mm |

### Connection data

| | |
|---|---|
| **Conductor cross section solid min.** | 0.14 mm² |
| **Conductor cross section solid max.** | 6 mm² |
| **Conductor cross section AWG/kcmil min.** | 26 |
| **Conductor cross section AWG/kcmil max** | 10 |
| **Conductor cross section stranded min.** | 0.14 mm² |
| **Conductor cross section stranded max.** | 6 mm² |
| **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 mm² |
| **Conductor cross section stranded, with ferrule without plastic sleeve max.** | 4 mm² |
| **Conductor cross section stranded, with ferrule with plastic sleeve min.** | 0.14 mm² |
| **Conductor cross section stranded, with ferrule with plastic sleeve max.** | 4 mm² |
| **2 conductors with same cross section, solid min.** | 0.14 mm² |
| **2 conductors with same cross section, solid max.** | 1.5 mm² |
| **2 conductors with same cross section, stranded min.** | 0.14 mm² |
| **2 conductors with same cross section, stranded max.** | 1.5 mm² |
| **2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.** | 0.5 mm² |
| **2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.** | 2.5 mm² |
| **2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.** | 0.14 mm² |
| **2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.** | 1.5 mm² |
| **Connection method** | Screw connection |
| **Stripping length** | 9 mm |

# Disconnect terminal block - UT 4-HEDI-P/P - 3046252

## Technical data

### Connection data

| | |
|---|---|
| **Internal cylindrical gage** | A4 |
| **Screw thread** | M3 |
| **Tightening torque, min** | 0.6 Nm |
| **Tightening torque max** | 0.8 Nm |

## classifications

### eCl@ss

| | |
|---|---|
| **eCl@ss 4.0** | 27141117 |
| **eCl@ss 4.1** | 27141117 |
| **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 |

### ETIM

| | |
|---|---|
| **ETIM 2.0** | EC000902 |
| **ETIM 3.0** | EC000902 |
| **ETIM 4.0** | EC000902 |
| **ETIM 5.0** | EC000902 |

### UNSPSC

| | |
|---|---|
| **UNSPSC 6.01** | 30211811 |
| **UNSPSC 7.0901** | 39121410 |
| **UNSPSC 11** | 39121410 |
| **UNSPSC 12.01** | 39121410 |
| **UNSPSC 13.2** | 39121410 |

## approvals

CSA / UL Recognized / cUL Recognized / GL / RS / cULus Recognized /

### Approval details

**CSA**

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

# Disconnect terminal block - UT 4-HEDI-P/P - 3046252

## approvals

**UL Recognized**

| Usegroups | B | C |
|---|---|---|
| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 16 A | 16 A |
| mm²/AWG/kcmil | 26-10 | 26-10 |

**cUL Recognized**

| Usegroups | B | C |
|---|---|---|
| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 16 A | 16 A |
| mm²/AWG/kcmil | 26-10 | 26-10 |

**GL**

**RS**

**cULus Recognized**

## accessories

### Screwdriver tools

SZS 0,6X3,5 - 1205053



### Marker pen

B-STIFT - 1051993



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## accessories

X-PEN 0,35 - 0811228



**Bridge**

VS - 3004207



FBS 2-6 - 3030336



FBS 3-6 - 3030242



FBS 4-6 - 3030255



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## accessories

FBS 5-6 - 3030349



FBS 10-6 - 3030271



FBS 20-6 - 3030365



**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



# Disconnect terminal block - UT 4-HEDI-P/P - 3046252

## accessories

NS 35/ 7,5 CAP - 1206560



NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



NS 35/15 WH UNPERF 2000MM - 1204135



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## accessories

NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 ZN PERF 2000MM - 1206599



NS 35/15 ZN UNPERF 2000MM - 1206586



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



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



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accessories

**Terminal marking**

ZB 5 :UNBEDRUCKT - 1050004



UC-TM 5 - 0818108



UCT-TM 5 - 0828734



ZB 6:UNBEDRUCKT - 1051003



UC-TM 6 - 0818085



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## accessories

UCT-TM 6 - 0828736



**Labeled terminal marker**

ZB 5 CUS - 0824962



UC-TM 5 CUS - 0824581



UCT-TM 5 CUS - 0829595



ZB 6 CUS - 0824992



# Disconnect terminal block - UT 4-HEDI-P/P - 3046252

## accessories

UC-TM 6 CUS - 0824589



UCT-TM 6 CUS - 0829602



**End block**

CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



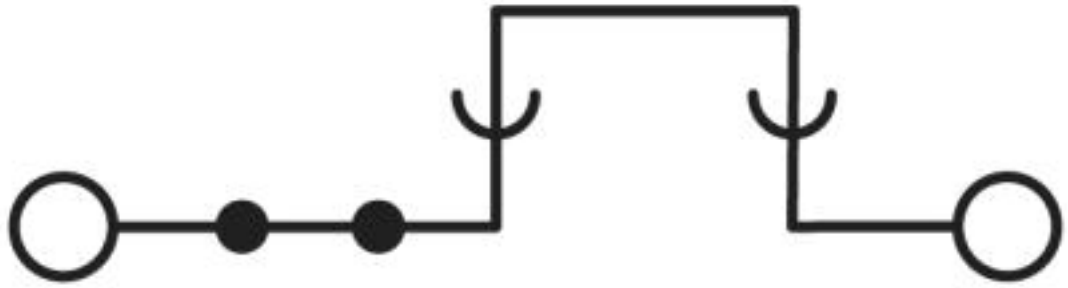
E/NS 35 N - 0800886



## Drawings

# Disconnect terminal block - UT 4-HEDI-P/P - 3046252

Circuit diagram



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