# Double-level terminal block - UTTB 4 HV - 3000610

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Double-level terminal block, connection method: Screw connection, cross section: 0.14 mm² - 6 mm², AWG: 26 - 10, width: 6.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

## Key Commercial Data

| | |
|---|---|
| Packing unit | 50 pc |
| GTIN | 4 046356 724630 |
| GTIN | 4046356724630 |

## Technical data

### General

| | |
|---|---|
| Number of levels | 2 |
| Number of connections | 4 |
| Nominal cross section | 4 mm² |
| Color | gray |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Rated surge voltage | 8 kV |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Insulating material group | I |
| Maximum power dissipation for nominal condition | 1.02 W (the value is multiplied when connecting multiple levels) |
| Connection in acc. with standard | IEC 60947-7-1 |
| Nominal current $I_N$ | 30 A |
| Maximum load current | 36 A (with 6 mm² conductor cross section) |
| Nominal voltage $U_N$ | 1000 V |
| Open side panel | Yes |
| Shock protection test specification | IEC 60529:2001-02 |

# Double-level terminal block - UTTB 4 HV - 3000610

## Technical data

### General

| | |
|---|---|
| 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 |
| Checking the mechanical stability of terminal points (5 x conductor connection) | Test passed |
| Result of bending test | Test passed |
| Bending test rotation speed | 10 rpm |
| Bending test turns | 135 |
| Bending test conductor cross section/weight | 0.14 mm² / 0.2 kg |
| | 4 mm² / 0.9 kg |
| | 6 $mm^2$ / 1.4 kg |
| Tensile test result | 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 |
| Result of tight fit on support | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 1 N |
| Result of voltage-drop test | Test passed |
| Requirements, voltage drop | ≤ 3.2 mV |
| Requirement, voltage drop 2nd level | ≤ 3.2 mV |
| Result of temperature-rise test | Test passed |
| Short circuit stability result | Test passed |
| Conductor cross section short circuit testing | 4 mm² |
| Short-time current | 0.48 kA |
| Conductor cross section short circuit testing | 6 mm² |
| Short-time current | 0.72 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 Hz to $f_2$ = 150 Hz |
| ASD level | 1.857 $(m/s^2)^2$/Hz |
| Acceleration | 0,8 g |

# Double-level terminal block - UTTB 4 HV - 3000610

## Technical data

### General

| | |
|---|---|
| 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 | 5g |
| 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)) | 130 °C |
| Static insulating material application in cold | -60 °C |
| Behavior in fire for rail vehicles (DIN 5510-2) | Test passed |
| Flame test method (DIN EN 60695-11-10) | V0 |
| Oxygen index (DIN EN ISO 4589-2) | >32 % |
| NF F16-101, NF F10-102 Class I | 2 |
| NF F16-101, NF F10-102 Class F | 2 |
| Surface flammability NFPA 130 (ASTM E 162) | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 28 MJ/kg |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 |

### Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| Length | 75.6 mm |
| Height NS 35/7,5 | 65 mm |
| Height NS 35/15 | 72.5 mm |

### Connection data

| | |
|---|---|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.14 mm² |
| Conductor cross section solid max. | 6 mm² |
| Conductor cross section flexible min. | 0.14 mm² |
| Conductor cross section flexible max. | 6 mm² |
| Conductor cross section AWG min. | 26 |
| Conductor cross section AWG max. | 10 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm² |

# Double-level terminal block - UTTB 4 HV - 3000610

## Technical data

### Connection data

| | |
|---|---|
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.14 mm² |
| Conductor cross section flexible, 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, ferrules without plastic sleeve, min. | 0.14 mm² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, 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 |
| Stripping length | 9 mm |
| Internal cylindrical gage | A4 |
| Screw thread | M3 |
| Tightening torque, min | 0.6 Nm |
| Tightening torque max | 0.8 Nm |

### Standards and Regulations

| | |
|---|---|
| Connection in acc. with standard | CUL |
| | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0 |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 |

### Environmental Product Compliance

| | |
|---|---|
| | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration” |

## Drawings

# Double-level terminal block - UTTB 4 HV - 3000610

Circuit diagram





## Approvals

### Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

### Approval details

| CSA | | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
|---|---|---|---|
| | B | C | |
| Nominal voltage UN | 600 V | 600 V | |
| Nominal current IN | 30 A | 30 A | |
| mm²/AWG/kcmil | 26-10 | 26-10 | |

| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
|---|---|---|---|
| | B | C | |
| Nominal voltage UN | 600 V | 600 V | |

# Double-level terminal block - UTTB 4 HV - 3000610

## Approvals

| | B | C |
|---|---|---|
| Nominal current IN | 30 A | 30 A |
| mm²/AWG/kcmil | 26-10 | 26-10 |

cUL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425

| | B | C |
|---|---|---|
| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 30 A | 30 A |
| mm²/AWG/kcmil | 26-10 | 26-10 |

EAC RU C-DE.A*30.B.01742

cULus Recognized

Phoenix Contact 2019 © - all rights reserved
http://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
http://www.phoenixcontact.com