

High-current terminal block - UKH 150 - 3010110

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High-current terminal block, Connection method: Screw connection, Number of connections: 2, Cross section: 35 mm² - 150 mm², AWG: 2 - 300 kcmil, Width: 31 mm, Height: 107.3 mm, Color: gray, Mounting type: NS 35/15, NS 32

Why buy this product

- ✓ Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base
- ✓ Low contact resistance of the contact surface due to ribbing
- ✓ Screw locking by means of spring-loaded elements in the clamping part



Key Commercial Data

| | |
|--------------------------------------|---------------|
| Packing unit | 1 STK |
| GTIN | |
| GTIN | 4017918091842 |
| Weight per Piece (excluding packing) | 370.000 g |
| Custom tariff number | 85369010 |
| Country of origin | China |

Technical data

General

| | |
|-----------------------|---------------------|
| Number of levels | 1 |
| Number of connections | 2 |
| Potentials | 1 |
| Nominal cross section | 150 mm ² |
| Color | gray |
| Insulating material | PA |

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Technical data

General

| | |
|---|--|
| 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 | 9.55 W |
| Maximum load current | 309 A (with 150 mm ² conductor cross section) |
| Nominal current I _N | 309 A |
| Nominal voltage U _N | 1000 V |
| Open side panel | No |
| 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 |
| 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 | 35 mm ² / 6.8 kg |
| | 50 mm ² / 9.5 kg |
| | 150 mm ² / 15 kg |
| Tensile test result | Test passed |
| Conductor cross section tensile test | 35 mm ² |
| Tractive force setpoint | 190 N |
| Conductor cross section tensile test | 50 mm ² |
| Tractive force setpoint | 472 N |
| Conductor cross section tensile test | 150 mm ² |
| Tractive force setpoint | 427 N |
| Result of tight fit on support | Test passed |
| Tight fit on carrier | NS 32/NS 35 |
| Setpoint | 15 N |
| Result of voltage-drop test | Test passed |
| Requirements, voltage drop | ≤ 3.2 mV |
| Result of temperature-rise test | Test passed |
| Short circuit stability result | Test passed |

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Technical data

General

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|---|---------------------|
| Conductor cross section short circuit testing | 150 mm ² |
| Short-time current | 18 kA |
| Result of thermal test | Test passed |
| Proof of thermal characteristics (needle flame) effective duration | 30 s |
| 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 | 31 mm |
| Length | 100 mm |
| Height | 107.3 mm |
| Height NS 35/15 | 118.5 mm |
| Height NS 32 | 116 mm |

Connection data

| | |
|---------------------------------------|--|
| Note | Screws with hexagonal socket |
| Connection method | Screw connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Note | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |
| Conductor cross section solid min. | 35 mm ² |
| Conductor cross section solid max. | 150 mm ² |
| Conductor cross section AWG min. | 2 |
| Conductor cross section AWG max. | 300 kcmil |
| Conductor cross section flexible min. | 50 mm ² |

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Connection data

| | |
|---|---------------------|
| Conductor cross section flexible max. | 150 mm ² |
| Min. AWG conductor cross section, flexible | 1/0 |
| Max. AWG conductor cross section, flexible | 300 kcmil |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 50 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 150 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 50 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 150 mm ² |
| Cross section with insertion bridge, solid max. | 150 mm ² |
| Cross section with insertion bridge, stranded max. | 120 mm ² |
| 2 conductors with same cross section, solid min. | 25 mm ² |
| 2 conductors with same cross section, solid max. | 50 mm ² |
| 2 conductors with same cross section, stranded min. | 35 mm ² |
| 2 conductors with same cross section, stranded max. | 50 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 25 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 50 mm ² |
| Cross section with insertion bridge, solid max. | 150 mm ² |
| Cross section with insertion bridge, stranded max. | 120 mm ² |
| Connection in acc. with standard | IEC/EN 60079-7 |
| Conductor cross section solid min. | 35 mm ² |
| Conductor cross section solid max. | 150 mm ² |
| Conductor cross section AWG min. | 2 |
| Conductor cross section AWG max. | 300 |
| Conductor cross section flexible min. | 50 mm ² |
| Conductor cross section flexible max. | 150 mm ² |
| Stripping length | 40 mm |
| Internal cylindrical gage | B14 |
| Screw thread | M10 |
| Tightening torque, min | 25 Nm |
| Tightening torque max | 30 Nm |

Standards and Regulations

| | |
|--|---------------|
| Connection in acc. with standard | CSA |
| | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0 |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|

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Technical data

Environmental Product Compliance

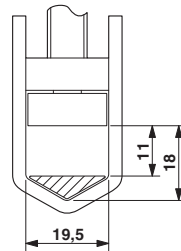
| | |
|--|--|
| | No hazardous substances above threshold values |
|--|--|

Drawings

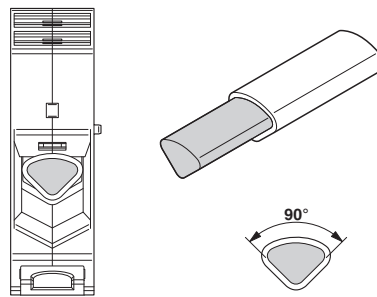
Circuit diagram



Dimensional drawing



Schematic diagram



Connecting aluminum cables. Further notes can be found in the download area

Approvals

Approvals

Approvals

CSA / UL Recognized / RS / PRS / EAC / EAC / DNV GL

Ex Approvals


IECEX / ATEX / UL Recognized / cUL Recognized / EAC Ex / cULus Recognized

Approval details


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Approvals

| | | | |
|--------------------------------|---|---|-------|
| CSA |  | http://www.csagroup.org/services/testing-and-certification/certified-product-listing/ | 13631 |
| | | B | C |
| mm ² /AWG/kcmil | | 2-300 | 2-300 |
| Nominal current I _N | | 275 A | 275 A |
| Nominal voltage U _N | | 600 V | 600 V |

| | | | |
|--------------------------------|---|---|--------------|
| UL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
| | | B | C |
| mm ² /AWG/kcmil | | 2-300 | 2-300 |
| Nominal current I _N | | 285 A | 285 A |
| Nominal voltage U _N | | 600 V | 600 V |

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|----|---|---|--------------|
| RS |  | http://www.rs-head.spb.ru/en/index.php | 10.04059.250 |
|----|---|---|--------------|

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|-----|---|---|-------------------|
| PRS |  | http://www.prs.pl/ | TE/1824/880590/09 |
|-----|---|---|-------------------|

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| EAC |  | | EAC-Zulassung |
|-----|---|--|---------------|

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|-----|---|--|---------------------|
| EAC |  | | 7500651.22.01.00246 |
|-----|---|--|---------------------|

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|--------|--|---|------------|
| DNV GL | | http://exchange.dnv.com/tari/ | TAE00001CT |
|--------|--|---|------------|