# Feed-through terminal block - UT 10 YE - 3046294

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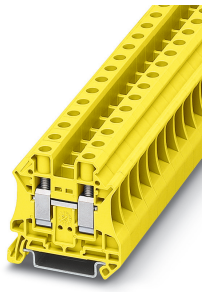

Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, connection method: Screw connection, number of connections: 2, cross section: 0.5 mm² - 16 mm², AWG: 20 - 6, width: 10.2 mm, color: yellow, mounting type: NS 35/7,5, NS 35/15

## Key Commercial Data

| | |
|---|---|
| Packing unit | 50 pc |
| GTIN | 4 017918 975630 |
| GTIN | 4017918975630 |

## Technical data

### General

| | |
|---|---|
| Number of levels | 1 |
| Number of connections | 2 |
| Potentials | 1 |
| Nominal cross section | 10 mm² |
| Color | yellow |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Mounting type | NS 35/7,5 |
| Rated surge voltage | 8 kV |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Insulating material group | I |
| Maximum load current | 76 A (with 16 mm² conductor cross section) |
| Nominal current $I_N$ | 57 A |
| Nominal voltage $U_N$ | 1000 V |
| Open side panel | Yes |
| 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 |
| Result of surge voltage test | Test passed |
| Surge voltage test setpoint | 9.6 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 flexion and pull-out test | Test passed |
| Bending test rotation speed | 10 rpm |
| Bending test turns | 135 |
| Bending test conductor cross section/weight | 0.5 mm² / 0.3 kg |
| | 10 mm² / 2 kg |
| Tensile test result | Test passed |
| Conductor cross section tensile test | 0.5 mm² |
| Tractive force setpoint | 20 N |
| Result of tight fit on support | Test passed |
| Tight fit on carrier | NS 35 |
| Setpoint | 5 N |
| Result of voltage-drop test | Test passed |
| Requirements, voltage drop | $U_1 \leq 3{,}2$ mV<br>$U_2 \leq 1{,}5 \times U_1$<br>dT ≤ 45 K |
| Result of temperature-rise test | Test passed |
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Short circuit stability result | Test passed |
| Conductor cross section short circuit testing | 10 mm² |
| Short-time current | 1.2 kA |
| Result of thermal test | Test passed |
| Proof of thermal characteristics (needle flame) effective duration | 30 s |
| Ageing test for screwless modular terminal block temperature cycles | 192 |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C |
| Static insulating material application in cold | -60 °C |
| Surface flammability NFPA 130 (ASTM E 162) | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 27,5 MJ/kg |
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |
| 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 |

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## Technical data

### Dimensions

| | |
|---|---|
| Width | 10.2 mm |
| End cover width | 2.2 mm |
| Length | 47.7 mm |
| Height NS 35/7,5 | 47.5 mm |
| Height NS 35/15 | 55 mm |

### Connection data

| | |
|---|---|
| Connection method | Screw connection |
| Screw thread | M4 |
| Stripping length | 10 mm |
| Tightening torque, min | 1.5 Nm |
| Tightening torque max | 1.8 Nm |
| 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. | 0.5 mm² |
| Conductor cross section solid max. | 16 mm² |
| Conductor cross section AWG min. | 20 |
| Conductor cross section AWG max. | 6 |
| Conductor cross section flexible min. | 0.5 mm² |
| Conductor cross section flexible max. | 16 mm² |
| Min. AWG conductor cross section, flexible | 20 |
| Max. AWG conductor cross section, flexible | 6 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 10 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.5 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 10 mm² |
| 2 conductors with same cross section, solid min. | 0.5 mm² |
| 2 conductors with same cross section, solid max. | 4 mm² |
| 2 conductors with same cross section, stranded min. | 0.5 mm² |
| 2 conductors with same cross section, stranded max. | 4 mm² |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm² |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 6 mm² |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum | 0.5 mm² |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum | 2.5 mm² |
| Internal cylindrical gage | A6 |

### Ambient conditions

| | |
|---|---|
| Operating temperature | -60 °C ... 105 °C (max. short-term operating temperature 130°C) |

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## Technical data

### Ambient conditions

| | |
|---|---|
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Permissible humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |

### 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 = 50 years |
| | For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration” |

## Drawings

Circuit diagram



## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 11.0 | 27141120 |
| eCl@ss 4.0 | 27141100 |
| eCl@ss 4.1 | 27141100 |
| eCl@ss 5.0 | 27141100 |
| eCl@ss 5.1 | 27141100 |
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 9.0 | 27141120 |

### ETIM

| | |
|---|---|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 30211811 |

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## Classifications

### UNSPSC

| | |
|---|---|
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11 | 39121410 |
| UNSPSC 12.01 | 39121410 |
| UNSPSC 13.2 | 39121410 |
| UNSPSC 18.0 | 39121410 |
| UNSPSC 19.0 | 39121410 |
| UNSPSC 20.0 | 39121410 |
| UNSPSC 21.0 | 39121410 |

## Approvals

### Approvals

Approvals

DNV GL / CSA / PRS / RS / IECEE CB Scheme / VDE Zeichengenehmigung / cULus Recognized

Ex Approvals

IECEx / EAC Ex / NEPSI / ATEX / CCC

### Approval details

| | | |
|---|---|---|
| DNV GL | https://approvalfinder.dnvgl.com/ | TAE00001S9 |

CSA — http://www.csagroup.org/services-industries/product-listing/ — 13631

| | B | C |
|---|---|---|
| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 65 A | 65 A |
| mm²/AWG/kcmil | 20-6 | 20-6 |

| | | |
|---|---|---|
| PRS | http://www.prs.pl/ | TE/2156/880590/17 |

| | | |
|---|---|---|
| RS | http://www.rs-head.spb.ru/en/index.php | 17.00013.272 |

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## Approvals

| | | | |
|---|---|---|---|
| IECEE CB Scheme | CB scheme | http://www.iecee.org/ | DE1-63061 |

| | |
|---|---|
| Nominal voltage UN | 1000 V |
| Nominal current IN | 57 A |
| mm²/AWG/kcmil | 10 |

| | | | |
|---|---|---|---|
| VDE Zeichengenehmigung | VDE | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40013658 |

| | |
|---|---|
| Nominal voltage UN | 1000 V |
| Nominal current IN | 57 A |
| mm²/AWG/kcmil | 0.5-10 |

| | | | |
|---|---|---|---|
| cULus Recognized | c UL us | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E60425 |

| | B | C |
|---|---|---|
| Nominal voltage UN | 600 V | 600 V |
| Nominal current IN | 65 A | 65 A |
| mm²/AWG/kcmil | 20-6 | 20-6 |

## Accessories

### Accessories

### DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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## Accessories

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



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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## Accessories

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



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

End cap - NS 35/ 7,5 CAP - 1206560



DIN rail end piece, for DIN rail NS 35/7.5

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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## Accessories

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

# Feed-through terminal block - UT 10 YE - 3046294

## Accessories

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

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



DIN rail, unperforated, Standard profile 2.3 mm, width: 35 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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### End block

End clamp - E/AL-NS 35 - 1201662



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

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### End cover

End cover - D-UT 2,5/10 - 3047028



End cover, length: 47 mm, width: 2.2 mm, height: 39.8 mm, color: gray

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End cover - D-UT 2,5/10 YE - 3047248



End cover, length: 47 mm, width: 2.2 mm, height: 39.8 mm, color: yellow

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### Jumper

# Feed-through terminal block - UT 10 YE - 3046294

## Accessories

Plug-in bridge - FBS 2-10 - 3005947



Plug-in bridge, pitch: 10.2 mm, number of positions: 2, color: red

Plug-in bridge - FBS 5-10 - 3005948



Plug-in bridge, pitch: 10.2 mm, number of positions: 5, color: red

Plug-in bridge - FBS 5-10 BU - 1040620



Plug-in bridge, pitch: 10.2 mm, number of positions: 5, color: blue

## Labeled terminal marker

Zack marker strip - ZB 10 CUS - 0824941



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB10,LGS:FORTL.ZAHLEN - 1053014



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

# Feed-through terminal block - UT 10 YE - 3046294

## Accessories

Zack marker strip - ZB10,QR:FORTL.ZAHLEN - 1053027



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - ZB10,LGS:L1-N,PE - 1053412



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - ZB10,LGS:U-N - 1053438



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TM 10 CUS - 0824605



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

Marker for terminal blocks - UCT-TM 10 CUS - 0829623



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

# Feed-through terminal block - UT 10 YE - 3046294

## Accessories

Marker for terminal blocks - TMT 10 R CUS - 0824500



Marker for terminal blocks, can be ordered: by line, white, labeled according to customer specifications, mounting type: snap into universal marker groove, snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 6.35 x 10.15 mm

### Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

### Partition plate

Partition plate - ATP-UT - 3047167



Partition plate, length: 53.4 mm, width: 2.2 mm, height: 45.7 mm, color: gray

### Pick-off terminal block

Pick-off terminal block - AGK 4-UT 10 - 3047112



Pick-off terminal block, nom. voltage: 1000 V, nominal current: 32 A, connection method: Screw connection, number of connections: 1, cross section: 0.14 mm² - 6 mm², AWG: 26 - 10, width: 8.1 mm, height: 24.7 mm, color: gray, mounting type: on base element

### Reducing bridge

Reducing bridge - RB UT 10-(2,5/4) - 3047060



Reducing bridge, pitch: 10.2 mm, length: 29.3 mm, width: 15.1 mm, number of positions: 2, color: red

# Feed-through terminal block - UT 10 YE - 3046294

## Accessories

Reducing bridge - RB UT 10-ST(2,5/4) - 3047086



Reducing bridge, pitch: 10.2 mm, length: 33.4 mm, width: 15.1 mm, number of positions: 2, color: red

Reducing bridge - RB UT 35-10 - 3032168



Reducing bridge, pitch: 13.2 mm, number of positions: 2, color: red

### Screwdriver tools

Screwdriver - SZS 1,0X4,0 VDE - 1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

### Terminal marking

Zack marker strip - ZB 10:UNBEDRUCKT - 1053001



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TM 10 - 0818069



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

# Feed-through terminal block - UT 10 YE - 3046294

## Accessories

Marker for terminal blocks - UCT-TM 10 - 0829142



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

Marker for terminal blocks - TMT 10 R - 0816210



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, perforated, mounting type: snap into universal marker groove, snap into flat marker groove, for terminal block width: 10.2 mm, lettering field size: 6.35 x 10.15 mm, Number of individual labels: 10000

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