

## Feed-through terminal block - UT 16-FE - 3047663

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 76 A, connection method: Screw connection, number of connections: 2, cross section: 1.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, AWG: 16 - 4, width: 12.2 mm, height: 54.4 mm, color: black/yellow, mounting type: NS 35/7,5, NS 35/15

### Your advantages

- ✓ The reducing bridges can be used to connect terminal blocks with different connection technologies, e.g., UT 35 screw terminal block with Push-in technology 2,5 Push-in terminal blocks, to form power blocks
- ✓ Easy and time-saving potential supply and distribution of large currents and cross sections up to 35 mm<sup>2</sup> with reducing bridges
- ✓ The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"
- ✓ Tested for railway applications



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 50 pc         |
| GTIN         |               |
| GTIN         | 4046356762632 |

### Technical data

#### General

|  |                    |
|--|--------------------|
| Number of levels                       | 1                  |
| Number of connections                  | 2                  |
| Potentials                             | 1                  |
| Nominal cross section                  | 16 mm <sup>2</sup> |
| Color                                  | black/yellow       |
| Insulating material                    | PA                 |
| Flammability rating according to UL 94 | V0                 |
| Area of application                    | Railway industry   |
|  | Machine building   |
|  | Plant engineering  |
|  | Process industry   |

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## Technical data

### General

|   |  |
|---|--|
| Rated surge voltage   | 8 kV   |
| Degree of pollution   | 3  |
| Overvoltage category  | III  |
| Insulating material group   | I  |
| Maximum power dissipation for nominal condition                         | 2.43 W   |
| Maximum load current  | 101 A (with 25 mm <sup>2</sup> conductor cross section)                |
| Nominal current I <sub>N</sub>  | 76 A   |
| Nominal voltage U <sub>N</sub>  | 1000 V   |
| Open side panel   | Yes  |
| Ambient temperature (operation)   | -60 °C ... 85 °C   |
| Ambient temperature (storage/transport)                                 | -25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C) |
| Permissible humidity (storage/transport)                                | 30 % ... 70 %  |
| Ambient temperature (assembly)  | -5 °C ... 70 °C  |
| Ambient temperature (actuation)   | -5 °C ... 70 °C  |
| 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   |
| 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)                        | 28 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  |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 12.2 mm |
| End cover width  | 2.2 mm  |
| Length           | 55.5 mm |
| Height           | 54.4 mm |
| Height NS 35/7,5 | 55 mm   |
| Height NS 35/15  | 62.5 mm |

### Connection data

|                                  |                  |
|----------------------------------|------------------|
| Connection method                | Screw connection |
| Screw thread                     | M5               |
| Stripping length                 | 14 mm            |
| Tightening torque, min           | 2.5 Nm           |
| Tightening torque max            | 3 Nm             |
| Connection in acc. with standard | IEC 60947-7-1    |

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## Technical data

### Connection data

|  |  |
|--|--|
| 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.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section solid max.   | 25 mm <sup>2</sup>   |
| Conductor cross section AWG min.   | 16   |
| Conductor cross section AWG max.   | 4  |
| Conductor cross section flexible min.  | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible max.  | 25 mm <sup>2</sup>   |
| Min. AWG conductor cross section, flexible   | 16   |
| Max. AWG conductor cross section, flexible   | 4  |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 1 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 16 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 1 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 16 mm <sup>2</sup>   |
| 2 conductors with same cross section, solid min.   | 1 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.   | 6 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.  | 1 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.  | 6 mm <sup>2</sup>  |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.75 mm <sup>2</sup>   |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 10 mm <sup>2</sup>   |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum  | 1 mm <sup>2</sup>  |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum  | 6 mm <sup>2</sup>  |
| Connection in acc. with standard   | IEC/EN 60079-7   |
| Conductor cross section solid min.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section solid max.   | 25 mm <sup>2</sup>   |
| Conductor cross section AWG min.   | 16   |
| Conductor cross section AWG max.   | 4  |
| Conductor cross section flexible min.  | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible max.  | 16 mm <sup>2</sup>   |
| Internal cylindrical gage  | A7   |

### Standards and Regulations

|  |                |
|--|----------------|
| Connection in acc. with standard       | IEC 60947-7-1  |
|  | IEC/EN 60079-7 |
| Flammability rating according to UL 94 | V0             |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

# Feed-through terminal block - UT 16-FE - 3047663

## Drawings

Circuit diagram



## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 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 8.0    | 27141120 |
| eCl@ss 9.0    | 27141120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

### UNSPSC

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

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### Approvals

DNV GL / CSA / PRS / UL Recognized / cUL Recognized / EAC / RS / IECCEB Scheme / VDE Zeichengenehmigung / cULus Recognized

# Feed-through terminal block - UT 16-FE - 3047663

## Approvals

Ex Approvals

IECEX / ATEX / EAC Ex

### Approval details

|        |  |   |            |
|--------|--|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00001S9 |
|--------|--|---|------------|

|                            |       |   |       |
|----------------------------|-------|---|-------|
| CSA                        |       | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                            | B     | C   |       |
| Nominal voltage UN         | 600 V | 600 V   |       |
| Nominal current IN         | 85 A  | 85 A  |       |
| mm <sup>2</sup> /AWG/kcmil | 16-4  | 16-4  |       |

|     |  |   |                   |
|-----|--|---|-------------------|
| PRS |  | <a href="http://www.prs.pl/">http://www.prs.pl/</a> | TE/2156/880590/17 |
|-----|--|---|-------------------|

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| UL Recognized              |       | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B     | C   |              |
| Nominal voltage UN         | 600 V | 600 V   |              |
| Nominal current IN         | 85 A  | 85 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 16-4  | 16-4  |              |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| cUL Recognized             |       | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B     | C   |              |
| Nominal voltage UN         | 600 V | 600 V   |              |
| Nominal current IN         | 85 A  | 85 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 16-4  | 16-4  |              |

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.A*30.B.01742 |
|-----|--|--------------------------|

# Feed-through terminal block - UT 16-FE - 3047663

## Approvals

|    |  |   |              |
|----|--|---|--------------|
| RS |  | <a href="http://www.rs-head.spb.ru/en/index.php">http://www.rs-head.spb.ru/en/index.php</a> | 17.00013.272 |
|----|--|---|--------------|

|                 |  |   |           |
|-----------------|--|---|-----------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-62915 |
|-----------------|--|---|-----------|

|                            |        |   |          |
|----------------------------|--------|---|----------|
| VDE Zeichengenehmigung     |        | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40020166 |
| Nominal voltage UN         | 1000 V |   |          |
| Nominal current IN         | 76 A   |   |          |
| mm <sup>2</sup> /AWG/kcmil | 1.5-16 |   |          |

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

## 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

## Feed-through terminal block - UT 16-FE - 3047663

### 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

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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

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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

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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

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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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## Feed-through terminal block - UT 16-FE - 3047663

### 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

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



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

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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

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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

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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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## Feed-through terminal block - UT 16-FE - 3047663

### 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

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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

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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

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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

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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

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## Feed-through terminal block - UT 16-FE - 3047663

### Accessories

End cap - NS 35/15 CAP - 1206573



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

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

### 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

### End cover

End cover - D-UT 16 - 3047206



End cover, length: 52.8 mm, width: 2.2 mm, height: 47.3 mm, color: gray

### Jumper

Plug-in bridge - FBS 2-12 - 3005950



Plug-in bridge, pitch: 12 mm, number of positions: 2, color: red

### Labeled terminal marker

## Feed-through terminal block - UT 16-FE - 3047663

### Accessories

#### Zack marker strip - ZB 12 CUS - 0824942



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5

#### Zack marker strip - ZB 12,LGS:L1-N,PE - 0812146



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5

#### Marker for terminal blocks - UC-TM 12 CUS - 0824613



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: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

#### Marker for terminal blocks - UCT-TM 12 CUS - 0829630



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: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30

#### 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

## Feed-through terminal block - UT 16-FE - 3047663

### Accessories

Partition plate - TPNS-UK - 0706647



Partition plate, length: 80 mm, width: 2 mm, height: 70 mm, color: gray

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### Pick-off terminal block

Pick-off terminal block - AGK 4-UT 16 - 3047125



Pick-off terminal block, nom. voltage: 1000 V, nominal current: 32 A, connection method: Screw connection, number of connections: 1, cross section: 0.14 mm<sup>2</sup> - 6 mm<sup>2</sup>, AWG: 26 - 10, width: 8.1 mm, height: 24.7 mm, color: gray, mounting type: on base element

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### Planning and marking software

Software - CLIP-PROJECT ADVANCED - 5146040



Multilingual software for convenient configuration of Phoenix Contact products on standard DIN rails.

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Software - CLIP-PROJECT PROFESSIONAL - 5146053



Multilingual software for terminal strip configuration. A marking module enables the professional marking of markers and labels for identifying terminal blocks, conductors and cables, and devices.

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### Reducing bridge

Reducing bridge - RB UT 16-(2,5/4) - 3047073



Reducing bridge, pitch: 11 mm, length: 31.4 mm, width: 18.1 mm, number of positions: 2, color: red

## Feed-through terminal block - UT 16-FE - 3047663

### Accessories

Reducing bridge - RB UT 16-ST(2,5/4) - 3047099



Reducing bridge, pitch: 11 mm, length: 40.9 mm, width: 18.1 mm, number of positions: 2, color: red

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Reducing bridge - RB 16-6 - 3047072



Reducing bridge, pitch: 12.2 mm, number of positions: 2, color: red

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### Terminal marking

Zack marker strip - ZB 12:UNPRINTED - 0812120



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: 12.2 mm, lettering field size: 12 x 10.5 mm, Number of individual labels: 5

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Marker for terminal blocks - UC-TM 12 - 0819194



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: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

---

Marker for terminal blocks - UCT-TM 12 - 0829144



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: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30

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### Warning label printed

## Feed-through terminal block - UT 16-FE - 3047663

### Accessories

Warning label - WS UT 16 - 3047374

Warning sign for UT terminal blocks



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