Feed-through terminal block - UT 16 - 3044199

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Feed-through terminal block, Connection method: Screw connection, Cross section: 1.5 mm² - 25 mm², AWG: 16 - 4, Width: 12.2 mm, Height: 54.4 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- 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 mm² 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	1 pc
Minimum order quantity	50 pc
Weight per Piece (excluding packing)	30.0 g
Custom tariff number	85369010
Country of origin	Turkey

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	16 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry

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Technical data

General

	Mechanical engineering
	Plant engineering
	Process industry
Rated surge voltage	8 kV
Pollution degree	3
Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	101 A (with 25 mm² conductor cross section)
Nominal current I_N	76 A
Nominal voltage U_N	1000 V
Open side panel	ja
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
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
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	1.5 mm² / 0.4 kg
	16 mm² / 2.9 kg
	25 mm² / 4.5 kg
Tensile test result	Test passed
Conductor cross section tensile test	1.5 mm²
Tractive force setpoint	40 N
Conductor cross section tensile test	16 mm²
Tractive force setpoint	100 N
Conductor cross section tensile test	25 mm²
Tractive force setpoint	135 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	5 N

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Technical data

General

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
Conductor cross section short circuit testing	16 mm²
Short-time current	1.92 kA
Conductor cross section short circuit testing	25 mm²
Short-time current	3 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	0.02 g²/Hz
Acceleration	0.8g
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	5 g
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))	120 °C

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

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Technical data

Connection data

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.	1.5 mm²
Conductor cross section solid max.	25 mm²
Conductor cross section AWG min.	16
Conductor cross section AWG max.	4
Conductor cross section flexible min.	1.5 mm²
Conductor cross section flexible max.	25 mm²
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 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	16 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	1 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	16 mm²
2 conductors with same cross section, solid min.	1 mm²
2 conductors with same cross section, solid max.	6 mm²
2 conductors with same cross section, stranded min.	1 mm²
2 conductors with same cross section, stranded max.	6 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.75 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	10 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	1 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	6 mm²
Connection in acc. with standard	IEC/EN 60079-7
Conductor cross section solid min.	1.5 mm²
Conductor cross section solid max.	25 mm²
Conductor cross section AWG min.	16
Conductor cross section AWG max.	4
Conductor cross section flexible min.	1.5 mm²
Conductor cross section flexible max.	16 mm²
Stripping length	14 mm
Internal cylindrical gage	A7
Screw thread	M5
Tightening torque, min	2.5 Nm
Tightening torque max	3 Nm

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Technical data

Standards and Regulations

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

Classifications

eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
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
eCl@ss 9.0	27141120

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

CSA / UL Recognized / VDE Zeichengenehmigung / cUL Recognized / GL / RS / IECEE CB Scheme / EAC / EAC / cULus Recognized

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Approvals

Ex Approvals

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

Approvals submitted

Approval details

CSA

	B	C
mm²/AWG/kcmil	16-4	16-4
Nominal current IN	85 A	85 A
Nominal voltage UN	600 V	600 V

UL Recognized

	B	C
mm²/AWG/kcmil	16-4	16-4
Nominal current IN	85 A	85 A
Nominal voltage UN	600 V	600 V

VDE Zeichengenehmigung

mm²/AWG/kcmil	1.5-16
Nominal current IN	76 A
Nominal voltage UN	1000 V

cUL Recognized

	B	C
mm²/AWG/kcmil	16-4	16-4
Nominal current IN	85 A	85 A

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Approvals

	B	C
Nominal voltage UN	600 V	600 V

GL

RS

IECEE CB Scheme

mm²/AWG/kcmil	1.5-16
Nominal current IN	76 A
Nominal voltage UN	1000 V

EAC

EAC

cULus Recognized

Accessories

Accessories

DIN rail

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



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

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Accessories

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



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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



DIN rail 35 mm (NS 35)

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



DIN rail 35 mm (NS 35)

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



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

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Accessories

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



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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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, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

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



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

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Accessories

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



DIN rail 35 mm (NS 35)

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



DIN rail 35 mm (NS 35)

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



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

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



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

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



DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

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Accessories

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



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

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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, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

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End cover

End cover - D-UT 16 - 3047206



End cover, Length: 52.8 mm, Width: 2.2 mm, Height: 47.3 mm, Color: gray

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Jumper

Plug-in bridge - FBS 2-12 - 3005950



Plug-in bridge, Number of positions: 2, Color: red

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Accessories

Labeled terminal marker

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: 10.5 x 12.15 mm

Marker for terminal blocks - ZB 12,LGS:L1-N,PE - 0812146



Marker for terminal blocks, 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: 10.5 x 12.15 mm

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: 11.45 x 10.5 mm

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: 10.8 x 9.6 mm

Marker pen

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Accessories

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 - TPNS-UK - 0706647



Partition plate, Length: 80 mm, Width: 2 mm, Height: 70 mm, Color: gray

Pick-off terminal block

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



Pick-off terminal block, Connection method: Screw connection, 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

Planning and marking software

Software - CLIP-PROJECT ADVANCED - 5146040



Multilingual software for easy planning of Phoenix Contact on DIN rails together with the integrated TRABTECH-select software module for planning comprehensive surge protection concepts.

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Accessories

Software - CLIP-PROJECT PROFESSIONAL - 5146053



Multi-lingual software for terminal strip project planning. A marking module allows professional labeling of markers and labels for marking terminal blocks, conductors, cables and devices. The additionally integrated software module TRABTECH-select for planning comprehensive surge protection concepts.

Reducing bridge

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



Reducing bridge, Number of positions: 2, Color: red

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



Reducing bridge, Number of positions: 2, Color: red

Terminal marking

Zack marker strip - ZB 12:UNPRINTED - 0812120



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 12.2 mm, Lettering field: 12 x 10.5 mm

Marker for terminal blocks - UC-TM 12 - 0819194



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 11.45 x 10.5 mm

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Accessories

Marker for terminal blocks - UCT-TM 12 - 0829144



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 10.8 x 9.6 mm

Warning label printed

Warning label - WS UT 16 - 3047374

Warning sign for UT terminal blocks



Drawings

Circuit diagram

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