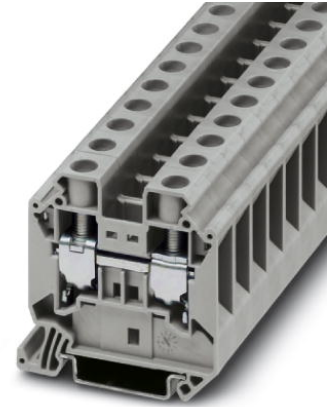


## UT 16


Order No.: 3044199



Feed-through terminal block, Connection method: Screw connection,  
Cross section: 1.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, AWG: 16 - 4, Width: 12.2 mm,  
Color: gray, Mounting type: NS 35/7.5, NS 35/15



### Commercial data

EAN	 4 017918 977535
Pack	50
Customs tariff	85369010
Gross weight in pieces	30.08 g
Country of Origin	TR
Catalog page information	Page 28 (CL1-2011)

### Product notes

WEEE/RoHS-compliant since:  
09/05/2005



Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation at <http://www.download.phoenixcontact.com>. The General Terms and Conditions of Use apply to Internet downloads.

### Technical data

#### General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0

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**Dimensions**

Width	12.2 mm
Length	55.5 mm
Height NS 35/7,5	55 mm
Height NS 35/15	62.5 mm

**Technical data**

Maximum load current	101 A (with 25 mm <sup>2</sup> conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I <sub>N</sub>	76 A
Nominal voltage U <sub>N</sub>	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
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	1.5 mm <sup>2</sup> / 0.4 kg
	16 mm <sup>2</sup> / 2.9 kg
	25 mm <sup>2</sup> / 4.5 kg
Result of bending test	Test passed
Conductor cross section tensile test	1.5 mm <sup>2</sup>
Tractive force setpoint	40 N
Conductor cross section tensile test	16 mm <sup>2</sup>
Tractive force setpoint	100 N
Conductor cross section tensile test	25 mm <sup>2</sup>

Tractive force setpoint	135 N
Tensile test result	Test passed
Tight fit on carrier	NS 35
Setpoint	5 N
Result of tight fit test	Test passed
Requirements, voltage drop	$\leq 3.2$ mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	16 mm <sup>2</sup>
Short-time current	1.92 kA
Conductor cross section short circuit testing	25 mm <sup>2</sup>
Short-time current	3 kA
Short circuit stability result	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, on vehicle body
Test frequency	$f_1 = 5$ Hz to $f_2 = 150$ Hz
ASD level	0.02 g <sup>2</sup> /Hz
Acceleration	0.8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Oscillation, broadband noise 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.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	120 °C
<b>Connection data</b>	
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/kcmil min.	16
Conductor cross section AWG/kcmil max	4
Conductor cross section stranded min.	1.5 mm <sup>2</sup>
Conductor cross section stranded max.	25 mm <sup>2</sup>
Min. AWG conductor cross section, stranded	16
Max. AWG conductor cross section, stranded	4
Conductor cross section stranded, with ferrule without plastic sleeve min.	1 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	16 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	1 mm <sup>2</sup>
Conductor cross section stranded, 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>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.75 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	10 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	1 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	6 mm <sup>2</sup>
Connection method	Screw connection
Stripping length	14 mm
Internal cylindrical gage	A7
Screw thread	M5
Tightening torque, min	2.5 Nm
Tightening torque max	3 Nm

## Certificates



Certification CSA, cULus Recognized, GOST, VDE Zeichengenehmigung, GL, RS, IECCEB Scheme

Certification Ex: ATEX, IECEx

Certifications applied for:

## Accessories

Item	Designation	Description
<b>Assembly</b>		
3047206	D-UT 16	End cover, Length: 52.8 mm, Width: 2.2 mm, Height: 47.3 mm, Color: gray
0801704	NS 35/ 7,5 AL UNPERF 2000MM	DIN rail, material: Aluminum, unperforated, height 7.5 mm, width 35 mm, length: 2 m
1206560	NS 35/ 7,5 CAP	DIN rail end piece, for DIN rail NS 35/7.5
0801762	NS 35/ 7,5 CU UNPERF 2000MM	DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m
0801733	NS 35/ 7,5 PERF 2000MM	DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm
0801681	NS 35/ 7,5 UNPERF 2000MM	DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m
1204119	NS 35/ 7,5 WH PERF 2000MM	DIN rail 35 mm (NS 35)
1204122	NS 35/ 7,5 WH UNPERF 2000MM	DIN rail 35 mm (NS 35)
1206421	NS 35/ 7,5 ZN PERF 2000MM	DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m
1206434	NS 35/ 7,5 ZN UNPERF 2000MM	DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m
1201756	NS 35/15 AL UNPERF 2000MM	DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm
1206573	NS 35/15 CAP	DIN rail end piece, for DIN rail NS 35/15
1201895	NS 35/15 CU UNPERF 2000MM	DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m
1201730	NS 35/15 PERF 2000MM	DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm
1201714	NS 35/15 UNPERF 2000MM	DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m
0806602	NS 35/15 WH PERF 2000MM	DIN rail 35 mm (NS 35)
1204135	NS 35/15 WH UNPERF 2000MM	DIN rail 35 mm (NS 35)

1206599	NS 35/15 ZN PERF 2000MM	DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m
1206586	NS 35/15 ZN UNPERF 2000MM	DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m
1201798	NS 35/15-2,3 UNPERF 2000MM	DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m
0706647	TPNS-UK	Separating plate, Length: 80 mm, Width: 2 mm, Height: 70 mm, Color: gray

### Bridges

3005950	FBS 2-12	Plug-in bridge, Number of positions: 2, Color: red
3047073	RB UT 16-(2,5/4)	Reducing bridge, Number of positions: 2, Color: red
3047099	RB UT 16-ST(2,5/4)	Reducing bridge, Number of positions: 2, Color: red

### Marking

0819194	UC-TM 12	Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, Bluemark, Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 12 mm, Lettering field: 11.45 x 10.5 mm
0824613	UC-TM 12 CUS	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
0829144	UCT-TM 12	Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: Thermomark C+, Thermomark C, BLUEMARK CLED, Bluemark, Mounting type: Snap into tall marker groove, For terminal block width: 12 mm, Lettering field: 10.8 x 9.6 mm
0829630	UCT-TM 12 CUS	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
3047374	WS UT 16	Warning sign for UT terminal blocks
0811228	X-PEN 0,35	Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm
0824942	ZB 12 CUS	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
0812120	ZB 12:UNPRINTED	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

### Plug/Adapter

3047125	AGK 4-UT 16	Pick-off terminal block, Connection method: Screw connection, Cross section: 0.14 mm <sup>2</sup> - 6 mm <sup>2</sup> , AWG: 26 - 10, Width: 8.2 mm, Height: 34.7 mm, Color: gray, Mounting type: On base element
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**Software**

5146040	CLIP-PROJECT ADVANCED	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.
5146053	CLIP-PROJECT PROFESSIONAL	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.

**Drawings**

Circuit diagram



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