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
- Tested for railway applications
- 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"

Key commercial data

package_quantity	50
GTIN	4017918977535

Technical data

General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0
Area of application	Railway industry
Area of application	Mechanical engineering
Area of application	Plant engineering
Area of application	Process industry

General

Maximum load current	101 A (with 25 mm² conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I

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Technical data

General

Connection in acc. with standard	IEC 60947-7-1
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
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 mm² / 0.4 kg
Bending test conductor cross section/weight	16 mm² / 2.9 kg
Bending test conductor cross section/weight	25 mm² / 4.5 kg
Result of bending test	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
Tensile test result	Test passed
Tight fit on carrier	NS 35
Setpoint	5 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	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
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, body mounted

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Technical data

General

Test frequency	f_1 = 5 Hz to f_2 = 150 Hz
ASD level	0.02 g²/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

Dimensions

Width	12.2 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 in acc. with standard	IEC 60947-7-1
Connection method	Screw connection
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/kcmil min.	16
Conductor cross section AWG/kcmil max	4
Conductor cross section stranded min.	1.5 mm²
Conductor cross section stranded max.	25 mm²
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 mm²
Conductor cross section stranded, with ferrule without plastic sleeve max.	16 mm²
Conductor cross section stranded, with ferrule with plastic sleeve min.	1 mm²
Conductor cross section stranded, with ferrule with plastic sleeve max.	16 mm²

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Technical data

Connection data

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
Stripping length	14 mm
Internal cylindrical gage	A7
Screw thread	M5
Tightening torque, min	2.5 Nm
Tightening torque max	3 Nm

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

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

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approvals

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

Approval details

IECEx	
Nominal voltage UN	690 V
Nominal current IN	73.5 A
mm²/AWG/kcmil	1.5-16

ATEX

Nominal voltage UN	690 V
Nominal current IN	73.5 A
mm²/AWG/kcmil	1.5-16

CSA

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

UL Recognized

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

VDE Zeichengenehmigung

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

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approvals

cUL Recognized

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

GL

RS

IECEE CB Scheme

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

cULus Recognized

accessories

Pick-off terminal block

AGK 4-UT 16 - 3047125

End cover

D-UT 16 - 3047206

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accessories

Partition plate

TPNS-UK - 0706647

Marker pen

X-PEN 0,35 - 0811228

Warning label printed

WS UT 16 - 3047374

Bridge

FBS 2-12 - 3005950

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accessories

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

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

Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733

NS 35/ 7,5 UNPERF 2000MM - 0801681

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

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accessories

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

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

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

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

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

NS 35/ 7,5 CAP - 1206560

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accessories

NS 35/15 PERF 2000MM - 1201730

NS 35/15 UNPERF 2000MM - 1201714

NS 35/15 WH PERF 2000MM - 0806602

NS 35/15 WH UNPERF 2000MM - 1204135

NS 35/15 AL UNPERF 2000MM - 1201756

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accessories

NS 35/15 ZN PERF 2000MM - 1206599

NS 35/15 ZN UNPERF 2000MM - 1206586

NS 35/15 CU UNPERF 2000MM - 1201895

NS 35/15 CAP - 1206573

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

Terminal marking

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accessories

ZB 12:UNPRINTED - 0812120

UC-TM 12 - 0819194

UCT-TM 12 - 0829144

Labeled terminal marker

ZB 12 CUS - 0824942

ZB 12,LGS:L1-N,PE - 0812146

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accessories

UC-TM 12 CUS - 0824613

UCT-TM 12 CUS - 0829630

Planning and marking software

CLIP-PROJECT ADVANCED - 5146040

CLIP-PROJECT PROFESSIONAL - 5146053

Drawings

Circuit diagram