Feed-through terminal block - UT 6 - 3044131

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Feed-through terminal block, Connection method: Screw connection, Cross section: 0.2 mm² - 10 mm², AWG: 24 - 8, Width: 8.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- Tested for railway applications
- As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- Optimum screwdriver guidance through closed screw shafts
- The multi-conductor connection offers maximum flexibility and wiring density
- The cable entry funnel enables the use of conductors with ferrules and plastic collars within the nominal cross section

Key commercial data

package_quantity	50
GTIN	4017918960438

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	57 A (with 10 mm² conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III

Feed-through terminal block - UT 6 - 3044131

Technical data

General

Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I_N	41 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	0.2 mm² / 0.2 kg
Bending test conductor cross section/weight	6 mm^2 / 1.4 kg
Bending test conductor cross section/weight	10 mm² / 2 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.2 mm²
Tractive force setpoint	10 N
Conductor cross section tensile test	6 mm²
Tractive force setpoint	80 N
Conductor cross section tensile test	10 mm²
Tractive force setpoint	90 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	6 mm²
Short-time current	0.72 kA
Conductor cross section short circuit testing	10 mm²
Short-time current	1.2 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

Feed-through terminal block - UT 6 - 3044131

Technical data

General

Test spectrum	Service life test category 1, class B, body mounted
Test frequency	f_1 = 5 Hz to f_2 = 150 Hz
ASD level	1.857 $(m/s^2)^2$/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))	130 °C
Static insulating material application in cold	-60 °C

Dimensions

Width	8.2 mm
Length	47.7 mm
Height NS 35/7,5	47.5 mm
Height NS 35/15	55 mm

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.	0.2 mm²
Conductor cross section solid max.	10 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	8
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	10 mm²
Min. AWG conductor cross section, stranded	24
Max. AWG conductor cross section, stranded	8
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.25 mm²
Conductor cross section stranded, with ferrule without plastic sleeve max.	6 mm²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.25 mm²
Conductor cross section stranded, with ferrule with plastic sleeve max.	6 mm²
2 conductors with same cross section, solid min.	0.2 mm²

Feed-through terminal block - UT 6 - 3044131

Technical data

Connection data

2 conductors with same cross section, solid max.	2.5 mm²
2 conductors with same cross section, stranded min.	0.2 mm²
2 conductors with same cross section, stranded max.	2.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	4 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm²
Connection method	Screw connection
Stripping length	10 mm
Internal cylindrical gage	A5
Screw thread	M4
Tightening torque, min	1.5 Nm
Tightening torque max	1.8 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

Feed-through terminal block - UT 6 - 3044131

approvals

IECEx / ATEX / CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / LR / GL / DNV / RS / IECEE CB Scheme / cULus Recognized /

Approval details

IECEx	
Nominal voltage UN	690 V
Nominal current IN	40 A
mm²/AWG/kcmil	0.2-6

ATEX

Nominal voltage UN	690 V
Nominal current IN	50 A
mm²/AWG/kcmil	0.2-10

CSA

Usegroups	**B**	**C**
Nominal voltage UN	600 V	600 V
Nominal current IN	50 A	50 A
mm²/AWG/kcmil	24-8	24-8

UL Recognized

Usegroups	**B**	**C**
Nominal voltage UN	600 V	600 V
Nominal current IN	50 A	50 A
mm²/AWG/kcmil	24-8	24-8

VDE Gutachten mit Fertigungsüberwachung

Nominal voltage UN	800 V
Nominal current IN	
mm²/AWG/kcmil	0.2-6

Feed-through terminal block - UT 6 - 3044131

approvals

cUL Recognized

Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	50 A	50 A
mm²/AWG/kcmil	24-8	24-8

LR

GL

DNV

RS

IECEE CB Scheme

Nominal voltage UN	800 V
Nominal current IN	
mm²/AWG/kcmil	0.2-6

cULus Recognized

accessories

End cover

D-UT 2,5/10 - 3047028

Feed-through terminal block - UT 6 - 3044131

accessories

DP PS-8 - 3036741

Partition plate

ATP-UT - 3047167

Screwdriver tools

SZS 1,0X4,0 VDE - 1205066

Marker pen

X-PEN 0,35 - 0811228

Warning label printed

WS UT 6 - 3047345

Feed-through terminal block - UT 6 - 3044131

accessories

Bridge

FBS 2-8 - 3030284

FBS 3-8 - 3030297

FBS 4-8 - 3030307

FBS 5-8 - 3030310

RB UT 6-(2,5/4) - 3047251

Feed-through terminal block - UT 6 - 3044131

accessories

RB UT 6-ST(2,5/4) - 3047264

FBS 6-8 - 3032470

FBS 10-8 - 3030323

FBSRH 2-8 - 3033802

FBSRH 3-8 - 3033803

FBSRH 4-8 - 3033804

Feed-through terminal block - UT 6 - 3044131

accessories

Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733

NS 35/ 7,5 UNPERF 2000MM - 0801681

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

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

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

Feed-through terminal block - UT 6 - 3044131

accessories

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

NS 35/15 PERF 2000MM - 1201730

NS 35/15 UNPERF 2000MM - 1201714

Feed-through terminal block - UT 6 - 3044131

accessories

NS 35/15 WH PERF 2000MM - 0806602

NS 35/15 WH UNPERF 2000MM - 1204135

NS 35/15 AL UNPERF 2000MM - 1201756

NS 35/15 ZN PERF 2000MM - 1206599

NS 35/15 ZN UNPERF 2000MM - 1206586

Feed-through terminal block - UT 6 - 3044131

accessories

NS 35/15 CU UNPERF 2000MM - 1201895

NS 35/15 CAP - 1206573

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

Terminal marking

ZB 8:UNBEDRUCKT - 1052002

UC-TM 8 - 0818072

Feed-through terminal block - UT 6 - 3044131

accessories

UCT-TM 8 - 0828740

Labeled terminal marker

ZB 8 CUS - 0825011

UC-TM 8 CUS - 0824597

UCT-TM 8 CUS - 0829616

Test plug terminal block

PAI-4-N GY - 3032871

Feed-through terminal block - UT 6 - 3044131

accessories

PAI-4-FIX BU - 3032729

PAI-4-FIX OG - 3034455

PAI-4-FIX YE - 3032745

PAI-4-FIX RD - 3032732

PAI-4-FIX GN - 3032758

PAI-4-FIX BK - 3032774

Feed-through terminal block - UT 6 - 3044131

accessories

PAI-4-FIX GY - 3032790

PAI-4-FIX VT - 3032761

PAI-4-FIX BN - 3032787

PS-8 - 3031005

PS-8/2,3MM RD - 3048564

Planning and marking software

Feed-through terminal block - UT 6 - 3044131

accessories

CLIP-PROJECT ADVANCED - 5146040

CLIP-PROJECT PROFESSIONAL - 5146053

End block

CLIPFIX 35 - 3022218

CLIPFIX 35-5 - 3022276

E/NS 35 N - 0800886

Drawings

Feed-through terminal block - UT 6 - 3044131

Circuit diagram