

Feed-through terminal block - ST 6 BU - 3031490

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

The illustration shows version ST 6 in gray

Product Features

- As well as saving space, the compact design and front connection enable user-friendly wiring in a small amount of space
- Tested for railway applications
- The consistent double function shaft offers every opportunity for time-saving potential distribution and accommodating test accessories
- The large wiring space enables the use of conductors with ferrules and plastic collars within the nominal cross section



Key commercial data

package_quantity	50
GTIN	4017918186951

Technical data

General

Number of levels	1
Number of connections	2
Color	blue
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	52 A (with 10 mm ² conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III

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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 mm ² / 0.2 kg
Bending test conductor cross section/weight	6 mm ² / 1.4 kg
Bending test conductor cross section/weight	10 mm ² / 2 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.2 mm ²
Tractive force setpoint	10 N
Conductor cross section tensile test	6 mm ²
Tractive force setpoint	80 N
Conductor cross section tensile test	10 mm ²
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 mm ²
Short-time current	0.72 kA
Conductor cross section short circuit testing	10 mm ²
Short-time current	1.2 kA
Short circuit stability result	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of aging test	Test passed

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Technical data

General

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 2, bogie mounted
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	11.83 (m/s ²) ² /Hz
Acceleration	4.25 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	30 g
Shock duration	18 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))	125 °C
Static insulating material application in cold	-60 °C

Dimensions

Width	8.2 mm
Length	69.5 mm
Height NS 35/7,5	43.5 mm
Height NS 35/15	51 mm

Connection data

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

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Connection data

Conductor cross section stranded, with ferrule with plastic sleeve max.	6 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm ²
Connection method	Spring-cage connection
Stripping length	12 mm
Internal cylindrical gage	A5

classifications

eCl@ss

eCl@ss 4.0	27141121
eCl@ss 4.1	27141121
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

approvals

IECEX / ATEX / CSA / UL Recognized / VDE Gutachten mit Fertigungsüberwachung / cUL Recognized / GOST / LR / GL / BV / DNV / KR / NK / GOST / cULus Recognized /

Approval details

IECEX	
Nominal voltage UN	550 V

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approvals

Nominal current IN	36.5 A
mm ² /AWG/kcmil	0.2-6

ATEX

Nominal voltage UN	550 V
Nominal current IN	45 A
mm ² /AWG/kcmil	0.2-10

CSA

Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	50 A	50 A
mm ² /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
mm ² /AWG/kcmil	24-8	24-8

VDE Gutachten mit Fertigungsüberwachung

Nominal voltage UN	800 V
Nominal current IN	41 A
mm ² /AWG/kcmil	0.5-6

cUL Recognized

Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	50 A	50 A
mm ² /AWG/kcmil	24-8	24-8

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GOST

LR

GL	
Nominal voltage UN	800 V
Nominal current IN	41 A
mm ² /AWG/kcmil	6

BV

DNV

KR

NK

cULus Recognized

accessories

End cover

D-ST 6 - 3030433



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accessories

DP PS-6 - 3036738



DP PS-8 - 3036741



Partition plate

ATP-ST 4 - 3030721



ATP-ST 6 - 3024481



Screwdriver tools

SZF 2-0,8X4,0 - 1204520



Documentation

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accessories

ST-IL - 3039900



Bridge

FBS 10-8 - 3030323



FBS 5-8 - 3030310



FBS 4-8 - 3030307



FBS 3-8 - 3030297



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accessories

FBS 2-8 - 3030284



RB ST 6-(2,5/4) - 3030860



FBS 6-8 - 3032470



FBSR 2-8 - 3033808



FBSR 5-8 - 3033809



FBSRH 2-8 - 3033802



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accessories

FBSRH 3-8 - 3033803



FBSRH 4-8 - 3033804



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 8:UNBEDRUCKT - 1052002



UC-TM 8 - 0818072



UCT-TM 8 - 0828740



ZBF 8:UNBEDRUCKT - 0808781



UC-TMF 8 - 0818137



UCT-TMF 8 - 0828748



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accessories

Labeled terminal marker

ZB 8 CUS - 0825011



UC-TM 8 CUS - 0824597



UCT-TM 8 CUS - 0829616



ZBF 8 CUS - 0825030



UC-TMF 8 CUS - 0824654



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accessories

UCT-TMF 8 CUS - 0829672



Test plug terminal block

PAI-4-FIX BU - 3032729



PAI-4-FIX OG - 3034455



PAI-4-FIX YE - 3032745



PAI-4-FIX RD - 3032732



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accessories

PAI-4-FIX GN - 3032758



PAI-4-FIX BK - 3032774



PAI-4-FIX GY - 3032790



PAI-4-FIX VT - 3032761



PAI-4-FIX BN - 3032787



PS-6 - 3030996



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accessories

PS-6/2,3MM RD - 3038736



PS-8 - 3031005



PS-8/2,3MM RD - 3048564



Planning and marking software

CLIP-PROJECT ADVANCED - 5146040



CLIP-PROJECT PROFESSIONAL - 5146053



End block

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accessories

CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



E/UK - 1201442



E/UK 1 - 1201413



Drawings

Feed-through terminal block - ST 6 BU - 3031490

Circuit diagram



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