

Double-level spring-cage terminal block - STTB 2,5 - 3031270

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Double-level spring-cage terminal block, Cross section: 0.08 mm² - 4 mm², AWG: 28 - 12, Connection type: Spring-cage connection, Width: 5.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- Compact design for maximum space savings
- Tested for railway applications
- Connect the levels using FBS ...-PV bridges



Key commercial data

package_quantity	50
GTIN	4017918186814

Technical data

General

Number of levels	2
Number of connections	4
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

Rated surge voltage	6 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I _N	22 A
Nominal voltage U _N	500 V

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Technical data

General

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	7.3 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	1.89 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	0.08 mm ² / 0.1 kg
Bending test conductor cross section/weight	2.5 mm ² / 0.7 kg
Bending test conductor cross section/weight	4 mm ² / 0.9 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.08 mm ²
Tractive force setpoint	5 N
Conductor cross section tensile test	2.5 mm ²
Tractive force setpoint	50 N
Conductor cross section tensile test	4 mm ²
Tractive force setpoint	60 N
Tensile test result	Test passed
Tight fit on carrier	NS 35
Setpoint	1 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	2.5 mm ²
Short-time current	0.3 kA
Conductor cross section short circuit testing	4 mm ²
Short-time current	0.48 kA
Short circuit stability result	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of aging test	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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General

Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$1.857 \text{ (m/s}^2\text{)}^2\text{/Hz}$
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))	125 °C
Static insulating material application in cold	-60 °C

Dimensions

Width	5.2 mm
Length	67.5 mm
Height NS 35/7,5	47.5 mm
Height NS 35/15	55 mm

Connection data

Connection method	Spring-cage connection
Conductor cross section solid min.	0.08 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section stranded min.	0.08 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	12
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.25 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve max.	2.5 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.25 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve max.	2.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm ²
Stripping length	10 mm
Internal cylindrical gage	A3

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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 / RS / ABS / KR / NK / IECCEB Scheme / VDE Gutachten mit Fertigungsüberwachung / GOST / IECCEB Scheme / cULus Recognized /

Approval details

IECEX	
Nominal voltage UN	440 V
Nominal current IN	19.5 A
mm ² /AWG/kcmil	0.08-2.5

ATEX 	
Nominal voltage UN	440 V
Nominal current IN	19.5 A
mm ² /AWG/kcmil	0.08-2.5

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approvals

Usegroups	B	C
Nominal voltage UN	300 V	300 V
Nominal current IN	20 A	20 A
mm ² /AWG/kcmil	28-12	28-12

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	20 A	20 A	5 A
mm ² /AWG/kcmil	28-12	28-12	28-12

VDE Gutachten mit Fertigungsüberwachung	
Nominal voltage UN	500 V
Nominal current IN	24 A
mm ² /AWG/kcmil	0.2-2.5

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	20 A	20 A	5 A
mm ² /AWG/kcmil	28-12	28-12	28-12

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LR

Nominal voltage UN	500 V
Nominal current IN	24 A

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approvals

mm ² /AWG/kcmil	2.5
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BV

DNV

RS

ABS	
Nominal voltage UN	600 V
Nominal current IN	20 A
mm ² /AWG/kcmil	26-12

KR

NK

IECEE CB Scheme	
Nominal voltage UN	500 V
Nominal current IN	24 A
mm ² /AWG/kcmil	0.2-2.5

Nominal voltage UN	500 V
Nominal current IN	24 A
mm ² /AWG/kcmil	0.2-2.5

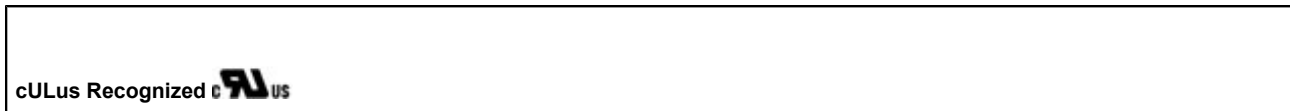
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approvals

Nominal voltage UN	800 V
Nominal current IN	
mm ² /AWG/kcmil	2.5



accessories

End cover

D-STTB 2,5 - 3030459



DP PS-5 - 3036725



Partition plate

ATP-STTB 4 - 3030747



Screwdriver tools

SZF 1-0,6X3,5 - 1204517



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accessories

Marker carriers

STP 5-2 - 0800967



Labeled terminal marker

WST 2,5 - 3030941



ZBF 5 CUS - 0825025



ZBF 5,LGS:FORTL.ZAHLEN - 0808671



ZBF 5,QR:FORTL.ZAHLEN - 0808697



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accessories

ZBF 5,LGS:GERADE ZAHLEN - 0810821



ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



UC-TMF 5 CUS - 0824638



UCT-TMF 5 CUS - 0829658



Documentation

ST-IL - 3039900



Bridge

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accessories

FBS 20-5 - 3030226



FBS 10-5 - 3030213



FBS 5-5 - 3030190



FBS 4-5 - 3030187



FBS 3-5 - 3030174



FBS 2-5 - 3030161



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accessories

FBS 50-5 - 3038930



FBSR 2-5 - 3033702



FBSR 3-5 - 3001591



FBSR 4-5 - 3001592



FBSR 5-5 - 3001593



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accessories

FBSR 10-5 - 3033710



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



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accessories

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



NS 35/15 PERF 2000MM - 1201730



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accessories

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



NS 35/15 ZN PERF 2000MM - 1206599



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accessories

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

ZBF 5:UNBEDRUCKT - 0808642



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accessories

UC-TMF 5 - 0818153



UCT-TMF 5 - 0828744



Insulating sleeve

ISH 2,5/0,2 - 3002843



ISH 2,5/0,5 - 3002856



ISH 2,5/1,0 - 3002869



Test plug terminal block

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accessories

PAI-4-FIX-5/6 BU - 3035975



PAI-4-FIX-5/6 OG - 3035974



PAI-4-FIX-5/6 YE - 3035977



PAI-4-FIX-5/6 RD - 3035976



PAI-4-FIX-5/6 GN - 3035978



PAI-4-FIX-5/6 BK - 3035980



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accessories

PAI-4-FIX-5/6 GY - 3035982



PAI-4-FIX-5/6 VT - 3035979



PAI-4-FIX-5/6 BN - 3035981



PS-5 - 3030983



PS-5/2,3MM RD - 3038723



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



Front adapter

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accessories

VIP-PA-PWR/20XOE/ 1,0M/S7 - 2904724



VIP-PA-PWR/20XOE/ 2,0M/S7 - 2904725



VIP-PA-PWR/20XOE/ 3,0M/S7 - 2904726



VIP-PA-PWR/20XOE/10,0M/S7 - 2904730



VIP-PA-PWR/40XOE/ 1,0M/S7 - 2904731



VIP-PA-PWR/40XOE/ 2,0M/S7 - 2904732



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accessories

VIP-PA-PWR/40XOE/ 3,0M/S7 - 2904733



VIP-PA-PWR/40XOE/10,0M/S7 - 2904737



Drawings

Circuit diagram

