

Double-level spring-cage terminal block - STTB 1,5 - 3031157

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Double-level spring-cage terminal block, Cross section: 0.08 mm² - 1.5 mm², AWG: 28 - 16, Connection type: Spring-cage connection, Width: 4.2 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	4017918186708

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	17.5 A
Nominal voltage U _N	500 V

Double-level spring-cage terminal block - STTB 1,5 - 3031157

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
Result of surge voltage test	Test passed
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	0.14 mm ² / 0.3 kg
Bending test conductor cross section/weight	1.5 mm ² / 0.4 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.14 mm ²
Conductor cross section tensile test	1.5 mm ²
Tensile test result	Test passed
Result of tight fit test	Test passed
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	1.5 mm ²
Short-time current	0.18 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	10 s
Result of thermal test	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	120 °C

Dimensions

Width	4.2 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.	1.5 mm ²
Conductor cross section stranded min.	0.08 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section AWG/kcmil min.	28

Double-level spring-cage terminal block - STTB 1,5 - 3031157

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Connection data

Conductor cross section AWG/kcmil max	16
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve max.	1.5 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.14 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve max.	1.5 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	A 1

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 / KR / NK / IECCE CB Scheme / GOST / cULus Recognized /

Approval details

Double-level spring-cage terminal block - STTB 1,5 - 3031157

approvals

IECEX	
Nominal voltage UN	440 V
Nominal current IN	17.5 A
mm ² /AWG/kcmil	0.08-1.5

ATEX	
Nominal voltage UN	440 V
Nominal current IN	17.5 A
mm ² /AWG/kcmil	0.08-1.5

CSA		
Usegroups	B	C
Nominal voltage UN	300 V	300 V
Nominal current IN	15 A	15 A
mm ² /AWG/kcmil	26-14	26-14

UL Recognized		
Usegroups	B	C
Nominal voltage UN	300 V	300 V
Nominal current IN	15 A	15 A
mm ² /AWG/kcmil	26-14	26-14

VDE Gutachten mit Fertigungsüberwachung	
Nominal voltage UN	500 V
Nominal current IN	17.5 A
mm ² /AWG/kcmil	1.5

cUL Recognized	
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Double-level spring-cage terminal block - STTB 1,5 - 3031157

approvals

Usegroups	B	C
Nominal voltage UN	300 V	300 V
Nominal current IN	15 A	15 A
mm ² /AWG/kcmil	26-14	26-14

GOST

LR

GL	
Nominal voltage UN	500 V
Nominal current IN	17.5 A
mm ² /AWG/kcmil	1.5

BV

DNV

RS

KR

NK

IECEE CB Scheme	
Nominal voltage UN	500 V
Nominal current IN	
mm ² /AWG/kcmil	1.5

cULus Recognized

Double-level spring-cage terminal block - STTB 1,5 - 3031157

accessories

End cover

D-STTB 2,5 - 3030459



DP PS-4 - 3036712



Partition plate

ATP-STTB 4 - 3030747



Marker carriers

STP 4-2 - 0810575



Labeled terminal marker

WST 1,5 - 3030958



Double-level spring-cage terminal block - STTB 1,5 - 3031157

accessories

ZBF 4 CUS - 0825023



ZBF 4,LGS:FORTL.ZAHLEN - 0808626



ZBF 4,QR:FORTL.ZAHLEN - 0808820



ZBF 4,LGS:GERADE ZAHLEN - 0810818



ZBF 4,LGS:UNGERADE ZAHLEN - 0810850



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accessories

UC-TMF 4 CUS - 0824630



UCT-TMF 4 CUS - 0829651



Screwdriver tools

SZF 0-0,4X2,5 - 1204504



Documentation

ST-IL - 3039900



Bridge

FBS 2-4 - 3030116



Double-level spring-cage terminal block - STTB 1,5 - 3031157

accessories

FBS 3-4 - 3030129



FBS 4-4 - 3030132



FBS 5-4 - 3030145



FBS 10-4 - 3030158



FBS 20-4 - 3030352



Mounting rail

Double-level spring-cage terminal block - STTB 1,5 - 3031157

accessories

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



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



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accessories

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



Double-level spring-cage terminal block - STTB 1,5 - 3031157

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



NS 35/15 CU UNPERF 2000MM - 1201895



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accessories

NS 35/15 CAP - 1206573



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



Terminal marking

ZBF 4:UNBEDRUCKT - 0808587



UC-TMF 4 - 0818166



UCT-TMF 4 - 0828742



Insulating sleeve

Double-level spring-cage terminal block - STTB 1,5 - 3031157

accessories

ISH 1,5/0,2 - 3206131



ISH 1,5/0,5 - 3031034



Test plug terminal block

PAI-4 - 3030925



PS-4 - 3030970



End block

CLIPFIX 35 - 3022218



Double-level spring-cage terminal block - STTB 1,5 - 3031157

accessories

CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



E/UK - 1201442



E/UK 1 - 1201413



Front adapter

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



Double-level spring-cage terminal block - STTB 1,5 - 3031157

accessories

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



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



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accessories

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



Drawings

Circuit diagram

