

Double-level spring-cage terminal block - STTB 4 - 3031429

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Double-level spring-cage terminal block, Cross section: 0.08 mm² - 6 mm², AWG: 28 - 10, Connection type: Spring-cage connection, Width: 6.2 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	4017918186920

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	30 A (with 4 mm ² conductor cross section)
Nominal voltage U _N	500 V

Double-level spring-cage terminal block - STTB 4 - 3031429

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	4 mm ² / 0.9 kg
Bending test conductor cross section/weight	6 mm ² / 1.4 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	4 mm ²
Tractive force setpoint	60 N
Conductor cross section tensile test	6 mm ²
Tractive force setpoint	80 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	4 mm ²
Short-time current	0.48 kA
Conductor cross section short circuit testing	6 mm ²
Short-time current	0.72 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 frequency	f ₁ = 5 Hz to f ₂ = 150 Hz

Double-level spring-cage terminal block - STTB 4 - 3031429

Technical data

General

Test duration per axis	2 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	6.2 mm
Length	83.5 mm
Height NS 35/7,5	47.5 mm
Height NS 35/15	55 mm

Connection data

Conductor cross section solid min.	0.08 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section stranded min.	0.08 mm ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	10
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm ²
Conductor cross section stranded, with ferrule without plastic sleeve max.	4 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.	4 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 mm ²
Connection method	Spring-cage connection
Stripping length	10 mm
Internal cylindrical gage	A4

classifications

eCl@ss

Double-level spring-cage terminal block - STTB 4 - 3031429

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 / GOST / VDE Gutachten mit Fertigungsüberwachung / IECCEB Scheme / cULus Recognized /

Approval details

IECEX	
Nominal voltage UN	440 V
Nominal current IN	26.5 A
mm²/AWG/kcmil	0.08-4

ATEX 	
Nominal voltage UN	440 V
Nominal current IN	30 A
mm²/AWG/kcmil	0.08-6

Double-level spring-cage terminal block - STTB 4 - 3031429

approvals

CSA 		
Usegroups	B	C
Nominal voltage UN	300 V	300 V
Nominal current IN	30 A	30 A
mm²/AWG/kcmil	28-10	28-10

UL Recognized 			
Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	30 A	30 A	5 A
mm²/AWG/kcmil	28-10	28-10	28-10

VDE Gutachten mit Fertigungsüberwachung 	
Nominal voltage UN	500 V
Nominal current IN	32 A
mm²/AWG/kcmil	0.2-4

cUL Recognized 			
Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	30 A	30 A	5 A
mm²/AWG/kcmil	28-10	28-10	28-10

GOST 	
---	--

LR

GL	
Nominal voltage UN	500 V
Nominal current IN	32 A

Double-level spring-cage terminal block - STTB 4 - 3031429

approvals

mm²/AWG/kcmil	4

BV

DNV

RS

ABS	
Nominal voltage UN	600 V
Nominal current IN	30 A
mm²/AWG/kcmil	20-10

KR

NK

IECEE CB Scheme 	
Nominal voltage UN	500 V
Nominal current IN	
mm²/AWG/kcmil	4



	
Nominal voltage UN	500 V
Nominal current IN	30 A
mm²/AWG/kcmil	4

	
---	--

Double-level spring-cage terminal block - STTB 4 - 3031429

approvals

Nominal voltage UN	500 V
Nominal current IN	
mm²/AWG/kcmil	4



accessories

End cover

D-STTB 4 - 3030462



DP PS-6 - 3036738



Partition plate

ATP-STTB 4 - 3030747



Screwdriver tools

SZF 1-0,6X3,5 - 1204517



Double-level spring-cage terminal block - STTB 4 - 3031429

accessories

Marker carriers

STP 5-2 - 0800967



Labeled terminal marker

WST 4 - 3030954



ZBF 6 CUS - 0825027



UC-TMF 6 CUS - 0824646



UCT-TMF 6 CUS - 0829665



Documentation

Double-level spring-cage terminal block - STTB 4 - 3031429

accessories

ST-IL - 3039900



Bridge

FBS 20-6 - 3030365



FBS 10-6 - 3030271



FBS 5-6 - 3030349



FBS 4-6 - 3030255



Double-level spring-cage terminal block - STTB 4 - 3031429

accessories

FBS 3-6 - 3030242



FBS 2-6 - 3030336



FBS 50-6 - 3032224



FBSR 2-6 - 3033715



FBSR 10-6 - 3033716



Mounting rail

Double-level spring-cage terminal block - STTB 4 - 3031429

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



Double-level spring-cage terminal block - STTB 4 - 3031429

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 4 - 3031429

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



Double-level spring-cage terminal block - STTB 4 - 3031429

accessories

NS 35/15 CAP - 1206573



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



Terminal marking

ZBF 6:UNBEDRUCKT - 0808710



UC-TMF 6 - 0818140



UCT-TMF 6 - 0828746



Insulating sleeve

Double-level spring-cage terminal block - STTB 4 - 3031429

accessories

ISH 4/0,5 - 3002885



ISH 4/1,0 - 3002898



Test plug terminal block

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



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



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



Double-level spring-cage terminal block - STTB 4 - 3031429

accessories

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



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



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



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



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



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



Double-level spring-cage terminal block - STTB 4 - 3031429

accessories

PS-6 - 3030996



PS-6/2,3MM RD - 3038736



End block

CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



Double-level spring-cage terminal block - STTB 4 - 3031429

accessories

E/UK - 1201442



E/UK 1 - 1201413



Drawings

Circuit diagram

