

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

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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

Why buy this product

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



Key commercial data

Packing unit	50 PCE
GTIN	 4 017918 186920
Weight per Piece (excluding packing)	15.434 GRM
Weight per piece (including packing)	16.73 GRM
Custom tariff number	85369010
Country of origin	Germany
Sales Key	A1 - Terminal Strips

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
	Mechanical engineering
	Plant engineering
	Process industry

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

Technical data

Dimensions

Width	6.2 mm
Length	83.5 mm
Height NS 35/7,5	47.5 mm
Height NS 35/15	55 mm

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
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
	4 mm ² / 0.9 kg
	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

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

Technical data

General

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
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

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

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

Technical data

Connection data

Stripping length	10 mm
Internal cylindrical gage	A4

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

Approvals

Approvals

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

Ex Approvals

IECEX / ATEX

Approvals submitted

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

Approvals

Approval details

CSA

	B	C
mm ² /AWG/kcmil	28-10	28-10
Nominal current I _N	30 A	30 A
Nominal voltage U _N	300 V	300 V

UL Recognized

	B	C	D
mm ² /AWG/kcmil	28-10	28-10	28-10
Nominal current I _N	30 A	30 A	5 A
Nominal voltage U _N	300 V	300 V	600 V

VDE Gutachten mit Fertigungsüberwachung

mm ² /AWG/kcmil	0.2-4
Nominal current I _N	32 A
Nominal voltage U _N	500 V

cUL Recognized

	B	C	D
mm ² /AWG/kcmil	28-10	28-10	28-10
Nominal current I _N	30 A	30 A	5 A
Nominal voltage U _N	300 V	300 V	600 V

GOST

LR

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

Approvals

GL	
mm ² /AWG/kcmil	4
Nominal current I _N	32 A
Nominal voltage U _N	500 V

BV


DNV


RS


ABS	
mm ² /AWG/kcmil	20-10
Nominal current I _N	30 A
Nominal voltage U _N	600 V

KR

NK

IECEE CB Scheme 	
mm ² /AWG/kcmil	4
Nominal voltage U _N	500 V

GOST 	
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VDE Gutachten mit Fertigungsüberwachung 	
mm ² /AWG/kcmil	4
Nominal current I _N	30 A
Nominal voltage U _N	500 V

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

Approvals

IECEE CB Scheme	
mm ² /AWG/kcmil	4
Nominal voltage UN	500 V

cULus Recognized	
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Accessories

Accessories

Assembly

Partition plate - ATP-STTB 4 - 3030747



Partition plate, Length: 88.7 mm, Width: 2 mm, Height: 53 mm, Color: gray

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

DIN rail - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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

Accessories

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



DIN rail 35 mm (NS 35)

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



DIN rail 35 mm (NS 35)

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



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

DIN rail - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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

Accessories

DIN rail - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

End cap - NS 35/ 7,5 CAP - 1206560



DIN rail end piece, for DIN rail NS 35/7.5

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

DIN rail - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

DIN rail - NS 35/15 WH PERF 2000MM - 0806602



DIN rail 35 mm (NS 35)

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

Accessories

DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail 35 mm (NS 35)

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

DIN rail - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

DIN rail - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

DIN rail - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

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

Accessories

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

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



DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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

Accessories

End clamp - E/UK - 1201442



End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail

End clamp - E/UK 1 - 1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

Bridges

Plug-in bridge - FBS 20-6 - 3030365



Plug-in bridge, Number of positions: 20, Color: red

Plug-in bridge - FBS 10-6 - 3030271



Plug-in bridge, Number of positions: 10, Color: red

Plug-in bridge - FBS 5-6 - 3030349



Plug-in bridge, Number of positions: 5, Color: red

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

Accessories

Plug-in bridge - FBS 4-6 - 3030255



Plug-in bridge, Number of positions: 4, Color: red

Plug-in bridge - FBS 3-6 - 3030242



Plug-in bridge, Number of positions: 3, Color: red

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, Number of positions: 2, Color: red

Plug-in bridge - FBS 50-6 - 3032224



Plug-in bridge, Number of positions: 50, Color: red

Plug-in bridge - FBSR 2-6 - 3033715



Plug-in bridge, Number of positions: 2, Color: red

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

Accessories

Plug-in bridge - FBSR 10-6 - 3033716



Plug-in bridge, Number of positions: 10, Color: red

Covers

End cover - D-STTB 4 - 3030462



End cover, Length: 83.5 mm, Width: 2.2 mm, Height: 47.5 mm, Color: gray

Spacer plate - DP PS-6 - 3036738



Spacer plate, Color: red

Marking

Marker carriers - STP 5-2 - 0800967



Double marker carrier, snaps onto the double-level spring-cage terminal block STTB 2.5 and STTB 4, labeled with ZB 5 or ZBF 5

Warning cover - WST 4 - 3030954



Warning cover, Strip, yellow, labeled, Mounting type: Plug in, Lettering field: 4.5 x 5.55 mm

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

Accessories

Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710



Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

Zack Marker strip, flat - ZBF 6 CUS - 0825027



Zack Marker strip, flat, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

Marker for terminal blocks - UC-TMF 6 - 0818140



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.6 x 5.1 mm

Marker for terminal blocks - UC-TMF 6 CUS - 0824646



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.6 x 5.1 mm

Marker for terminal blocks - UCT-TMF 6 - 0828746



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: THERMOMARK CARD PLUS, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.4 x 4.7 mm

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

Accessories

Marker for terminal blocks - UCT-TMF 6 CUS - 0829665



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 6.2 mm, Lettering field: 5.4 x 4.7 mm

Plug/Adapter

Insulating sleeve - ISH 4/0,5 - 3002885



Insulating sleeve, Color: gray

Insulating sleeve - ISH 4/1,0 - 3002898



Insulating sleeve, Color: black

Test adapter - PAI-4-N GY - 3032871



Test adapter, Color: gray

Test adapter - PS-6 - 3030996



Test adapter, Color: red

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

Accessories

Test plugs - PS-6/2,3MM RD - 3038736



Test plugs, Color: red

Tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Mounting material - ST-IL - 3039900

Operating decal for the ST terminal block



Drawings

Circuit diagram

