

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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://phoenixcontact.com/download)



Knife disconnect terminal block, With test socket screws for insertion of test plugs, nom. voltage: 500 V, nominal current: 20 A, connection method: Screw connection, cross section: 0.14 mm² - 6 mm², AWG: 26 - 10, length: 57.8 mm, width: 6.2 mm, color: gray, mounting: NS 35/7,5, NS 35/15, nom. voltage: 500 V/

Why buy this product

▼ Tested for railway applications

☑ Double bridge shaft enables individual potential distribution and supply



Key Commercial Data

Packing unit	50 STK
GTIN	4 017918 975593
GTIN	4017918975593

Technical data

General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	4 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
	Machine building
	Plant engineering
Rated surge voltage	6 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I



Technical data

General

$\begin{array}{c} \text{Nominal current I}_{N} & 20 \text{ A (N)} \\ \text{Nominal voltage U}_{N} & 500 \text{ V} \\ \text{Open side panel} & \text{No} \end{array}$	0529:2001-02 nteed nteed passed	
Nominal voltage U _N 500 V Open side panel No Shock protection test specification IEC 60 Back of the hand protection guaran Finger protection guaran	0529:2001-02 nteed nteed passed	
Open side panel No Shock protection test specification IEC 60 Back of the hand protection guaran Finger protection guaran	0529:2001-02 nteed nteed passed	
Shock protection test specification IEC 60 Back of the hand protection guaran Finger protection guaran	nteed nteed passed	
Back of the hand protection guaranteeping gu	nteed nteed passed	
Finger protection guaran	nteed passed	
9	passed /	
Result of surge voltage test Test p	1	
•		
Surge voltage test setpoint 7.3 kV	passed	
Result of power-frequency withstand voltage test Test p		
Power frequency withstand voltage setpoint 1.89 k ¹	·V	
Result of the test for mechanical stability of terminal points (5 x conductor connection) Test p	passed	
Result of bending test Test p.	passed	
Bending test rotation speed 10 rpm	n	
Bending test turns 135		
Bending test conductor cross section/weight 0.14 m	0.14 mm² / 0.2 kg	
4 mm²	² / 0.9 kg	
6 mm ²	² / 1.4 kg	
Tensile test result Test p.	passed	
Conductor cross section tensile test 0.14 m	nm²	
Tractive force setpoint 10 N		
Conductor cross section tensile test 4 mm²	2	
Tractive force setpoint 60 N		
Conductor cross section tensile test 6 mm²	2	
Tractive force setpoint 80 N		
Result of tight fit on support Test p	passed	
Tight fit on carrier NS 35	5	
Setpoint 1 N		
Result of voltage-drop test Test p	passed	
Requirements, voltage drop \leq 6,4 r	mV	
Result of temperature-rise test Test p	passed	
Short circuit stability result Test p	passed	
Conductor cross section short circuit testing 2.5 mr	m²	
Short-time current 0.3 kA		
Result of thermal test Test p	passed	
Proof of thermal characteristics (needle flame) effective duration 30 s		
Oscillation, broadband noise test result Test p	passed	
Test specification, oscillation, broadband noise DIN El	N 50155 (VDE 0115-200):2008-03	
Test spectrum Service	ce life test category 1, class B, body mounted	



Technical data

General

Test frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
ASD level	1.857 (m/s²)²/Hz
Acceleration	0,8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock 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.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

Dimensions

Width	6.2 mm
Length	57.8 mm
Height NS 35/7,5	49.1 mm
Height NS 35/15	56.6 mm

Connection data

Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section AWG min.	26



Technical data

Connection data

Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	6 mm²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 mm²
2 conductors with same cross section, solid min.	0.14 mm²
2 conductors with same cross section, solid max.	1.5 mm ²
2 conductors with same cross section, stranded min.	0.14 mm²
2 conductors with same cross section, stranded max.	1.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	2.5 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.14 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm²
Stripping length	9 mm
Internal cylindrical gage	A4
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm

Standards and Regulations

Connection in acc. with standard	CSA	
	IEC 60947-7-1	
Flammability rating according to UL 94	V0	
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3	
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3	
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3	
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3	

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings



Circuit diagram



Approvals	Α	D	ord	ΟV	als	S
-----------	---	---	-----	----	-----	---

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approval details

CSA	(P	http://www.csagroup.org/services-indu	stries/product-listing/ 13631
		В	С
Nominal voltage UN		300 V	300 V
Nominal current IN		16 A	16 A
mm²/AWG/kcmil		26-10	26-10

UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425	
	В	С
Nominal voltage UN	300 V	300 V
Nominal current IN	16 A	16 A
mm²/AWG/kcmil	26-10	26-10

cUL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E	
	В	С
Nominal voltage UN	300 V	300 V
Nominal current IN	16 A	16 A
mm²/AWG/kcmil	26-10	26-10

EAC EAC-Zulassung



Approvals

EAC RU C-DE.A*30.B.01742

cULus Recognized



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

Phoenix Contact 2018 © - all rights reserved http://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany

Tel. +49 5235 300 Fax +49 5235 3 41200

http://www.phoenixcontact.com