

3031584

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Component terminal block, The max. current is determined by the diode. Installed: Diode 1N 4007, reverse voltage: 1300 V, maximum continuous current: 0.5 A., with integrated diode, nominal current: 0.5 A, 1st and 2nd level, connection method: Spring-cage connection, Rated cross section: 2.5 mm², cross section: 0.08 mm² - 4 mm², mounting: NS 35/7,5, NS 35/15, color: gray

Your advantages

- · For more versions and versions for soldering in components yourself, visit phoenixcontact.com/products
- · Double-level diode and LED terminal blocks perform a wide range of switching tasks

Commercial data

Item number	3031584
Packing unit	50 pc
Minimum order quantity	1 pc
Sales key	0164*
Product key	BE2172
Catalog page	Page 219 (C-1-2019)
GTIN	4017918183066
Weight per piece (including packing)	10.8 g
Weight per piece (excluding packing)	10.8 g
Customs tariff number	85369010
Country of origin	PL



3031584

https://www.phoenixcontact.com/sg/products/3031584

Technical data

Notes

General	The max. current is determined by the diode. Installed: Diode 1N 4007, reverse voltage: 1300 V, maximum continuous current: 0.5
	A.

Product properties

Product type	Component terminal block
Number of connections	4
Number of rows	2
Potentials	2

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	2
Nominal cross section	2.5 mm²

1st and 2nd level

Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Conductor cross section rigid	0.08 mm² 4 mm²
Cross section AWG	28 12 (converted acc. to IEC)
Conductor cross section flexible	0.08 mm² 2.5 mm²
Conductor cross section, flexible [AWG]	28 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ²
Nominal current	0.5 A
Maximum load current	0.5 A
Nominal cross section	2.5 mm²

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	67.5 mm
Depth on NS 35/7,5	47.5 mm



3031584

https://www.phoenixcontact.com/sg/products/3031584

Depth on NS 35/15	55 mm
Material specifications	
Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	T
Insulating material	PA
Static insulating material application in cold	-60 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
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
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
Electrical tests Surge voltage test	
Test voltage setpoint	4.8 kV
Result	Test passed
Short-time withstand current 2.5 mm²	0.3 kA
Short-time withstand current 4 mm²	0.48 kA
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	1.5 kV
Result	Test passed
Mechanical properties Mechanical data	
Open side panel	Yes
Mechanical tests	103
Mechanical strength	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 rpm



3031584

https://www.phoenixcontact.com/sg/products/3031584

Revolutions	135
Conductor cross section/weight	0.08 mm² / 0.1 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed

Environmental and real-life conditions

$\Lambda \sim$	III	-

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03	
Spectrum	Long life test category 2, bogie-mounted	
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$	
ASD level	6.12 (m/s²)²/Hz	
Acceleration	3.12g	
Test duration per axis	5 h	
Test directions	X-, Y- and Z-axis	
Result	Test passed	

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C 70 °C
Ambient temperature (actuation)	-5 °C 70 °C
Permissible humidity (operation)	20 % 90 %
Permissible humidity (storage/transport)	30 % 70 %

Mounting

Mounting type	NS 35/7,5
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3031584

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NS 35/15

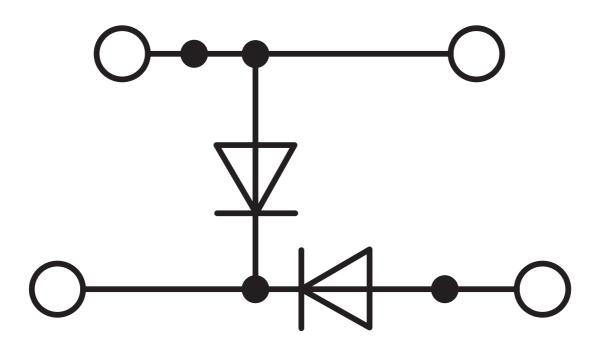


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Drawings







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/3031584

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	0.5 A	28 - 12	-
Use group C				
	300 V	0.5 A	28 - 12	-

EAC	EAC
LIIL	Approval ID: RU C-DE.BL08.B.00644

cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	0.5 A	28 - 12	-
Use group C				
	300 V	0.5 A	28 - 12	-



3031584

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Classifications

ECLASS

	ECLASS-11.0	27141127	
	ECLASS-12.0	27141127	
	ECLASS-13.0	27250114	
ETIM			
	ETIM 9.0	EC000903	
UNSPSC			
	UNSPSC 21.0	39121400	



3031584

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	66270f08-8b34-4cf2-b1a1-b1374a051142

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