

1020774

https://www.phoenixcontact.com/us/products/1020774

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Component terminal block, with integrated 1N4007 diode, nominal current: 0.5 A, number of connections: 4, connection method: Push-in connection, Rated cross section: 2.5 mm 2 , 1st and 2nd level, cross section: 0.14 mm 2 - 4 mm 2 , mounting type: NS 35/7,5, NS 35/15, color: black

Your advantages

- The compact design and front connection enable wiring in a confined space

 space

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- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- · In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

Commercial data

Item number	1020774
Packing unit	50 pc
Minimum order quantity	100 pc
Product key	BE2272
GTIN	4055626510859
Weight per piece (including packing)	11.187 g
Weight per piece (excluding packing)	11.187 g
Country of origin	CN



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Technical data

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

Number of connections	4
Number of rows	2
Insulation characteristics	

Component terminal block

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated insulation voltage	500 V
Rated surge voltage	6 kV

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	
	B3	
Connection in acc. with standard	IEC 60947-7-1 (in compliance)	
Conductor cross section rigid	0.14 mm² 4 mm²	
Cross section AWG	26 12 (converted acc. to IEC)	
Conductor cross section flexible	0.14 mm² 4 mm²	
Conductor cross section, flexible [AWG]	26 12 (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 mm²	
Nominal current	0.5 A	
Maximum load current	0.5 A	
Nominal cross section	2.5 mm²	
Component type	Diode 1N4007	
Reverse voltage	1300 V	

1st and 2nd level Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm² 4 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² 2.5 mm²



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Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² 2.5 mm²	
ensions		
Width	5.2 mm	
End cover width	2.2 mm	
Height	68 mm	
Depth	45.8 mm	
Depth on NS 35/7,5	47.5 mm	
Depth on NS 35/15	55 mm	
erial specifications		
Color	black (RAL 9005)	
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 HL 1 - HL 3 passed	
Fire protection for rail vehicles (DIN EN 45545-2) R26		
Surface flammability NFPA 130 (ASTM E 162)		
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed	
Smoke gas toxicity NFPA 130 (SMP 800C)	passed	
ctrical tests		
urge voltage test		
Test voltage setpoint	7.3 kV	
Result	Test passed	
ower-frequency withstand voltage		
Test voltage setpoint	1.89 kV	
Result	Test passed	
chanical properties		
Sharilear properties		
echanical data		
Open side panel	Yes	
chanical tests		
ttachment on the carrier		
DIN rail/fixing support	NS 35	
Result	Test passed	
	. 55. passou	

Environmental and real-life conditions



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Spectrum	· · · · · ·
	Long life test category 2, bogie-mounted
Frequency	f ₁ = 5 Hz to f ₂ = 250 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
ocks	
Specification	DIN EN 50155 (VDE 0115-200):2022-06
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
nbient conditions	
Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heat 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 t +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 %
dards and regulations	
Connection in acc. with standard	IEC 60947-7-1 (in compliance)
nting	

NS 35/15

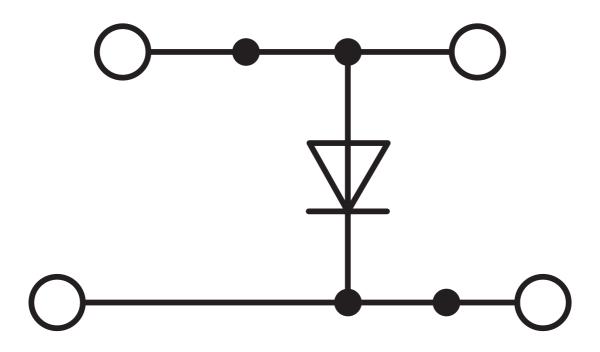


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Drawings







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1020774

CSA Approval ID: 2030668				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	0.5 A	26 - 12	-
Use group C				
	300 V	0.5 A	26 - 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	20 A	26 - 12	-	
Current determined by the diode	300 V	0.5 A	26 - 12	-	
Use group C					
	300 V	20 A	26 - 12	-	
Current determined by the diode	300 V	0.5 A	26 - 12	-	



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Classifications

EC	ECLASS				
	ECLASS-13.0	27250114			
ETIM					
	ETIM 9.0	EC000903			

UNSPSC

UNSPSC 21.0 39121400



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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	0a912535-7e43-4025-a342-6aa255b0e01a	

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