

1157689

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Knife-disconnect terminal block, with test socket screws to accommodate 4 mm test plugs, nom. voltage: 500 V, nominal current: 20 A, connection method: Push-in connection, Rated cross section: 4 mm², cross section: 0.2 mm² - 6 mm², connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.2 mm² - 6 mm², mounting: NS 35/7,5, NS 35/15, color: gray

Your advantages

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

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- · The push-in connection is used inside the control cabinet and the universal screw connection is used on the end customer side

Commercial data

Item number	1157689
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BE2231
GTIN	4063151163044
Weight per piece (including packing)	17.69 g
Weight per piece (excluding packing)	17.69 g
Customs tariff number	85369010
Country of origin	RU



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Flexible conductor cross section (ferrule with plastic sleeve)

Conductor cross-section flexible (2 conductors with the same

2 conductors with the same cross section, flexible, with TWIN

cross-section, with TWIN ferrule and plastic sleeve)

ferrule with plastic sleeve

Technical data

Notes

Notes	
General	
Note	When establishing a connection on the open housing side of a feed-through modular terminal block of the same series and size, the block must be provided with a cover if the expected insulation voltage is >320 V.
	The max. load current must not be exceeded by the total current of all connected conductors.
Product properties	
Product type	Disconnect terminal block
Number of connections	2
Number of rows	1
Potentials	1
Data management status	
Article revision	02
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3
Electrical properties	
Rated surge voltage	6 kV
Connection data	
Type of additional hybrid connection	UT 4
Number of connections per level	2
Nominal cross section	4 mm²
Level 1 above 1	
Stripping length	10 mm 12 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm² 6 mm²
Cross section AWG	24 10 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm ² 6 mm ²
Conductor cross section, flexible [AWG]	24 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 4 mm²

0.25 mm² ... 4 mm²

0.5 mm² ... 1 mm²

 $0.5\;mm^2\ldots\,1\;mm^2$



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Nominal current	20 A
Maximum load current	20 A
Nominal voltage	500 V
Nominal cross section	4 mm²
Level 1 below 1	
Screw thread	M3,5
Tightening torque	1 1.2 Nm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm² 6 mm²
Cross section AWG	24 10 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² 6 mm²
Conductor cross section, flexible [AWG]	24 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 4 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm² 1 mm²
2 conductors with same cross section, solid	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.2 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1 mm²
Nominal current	20 A
Maximum load current	20 A
Nominal voltage	500 V
Nominal cross section	4 mm²
Level 1 above 1 Connection cross sections directly pluggable	
Conductor cross section rigid	0.5 mm² 6 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.75 mm² 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 4 mm²
imensions	
Width	6.2 mm
End cover width	6.2 mm
End cover width	2.2 mm
laterial specifications	
Color	gray
Flammability rating according to UL 94	V0
Insulating material group	T
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C



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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
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
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

Sura	ie vo	ltage	test
Suru		าเลนษ	เธอเ

Test voltage setpoint	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 2.5 mm²	0.3 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

$NA \sim \sim$	hanica	N 40+0
IVIEC	Hallica	ıı uata

Open side panel	Yes

Mechanical tests

Mechanical strength

Result	Test passed
Attachment on the carrier	
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm² / 0.2 kg
	4 mm² / 0.9 kg
	6 mm² / 1.4 kg
Result	Test passed

Environmental and real-life conditions



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ging 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):2018-05
Spectrum	Service 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	
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 105 °C (max. short-term operating temperature 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 (storage/transport)	30 % 70 %
andards and regulations	
Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
unting	
Mounting type	NS 35/7,5
	NS 35/15



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Classifications

E	ECLASS		
	ECLASS-11.0	27141126	
ETIM			
	ETIM 8.0	EC000902	

UNSPSC

UNSPSC 21.0 39121400



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes		
Exemption	6(c)		
China RoHS			
Environment friendly use period (EFUP)	EFUP-E		
	No hazardous substances above the limits		
EU REACH SVHC			
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)		

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PHOENIX CONTACT SEA Pte. Ltd. 105 Eunos Avenue 3, #04-00 Singapore 409836 +65 6228 4900 marketing@phoenixcontact.com.sg