

1322453

https://www.phoenixcontact.com/us/products/1322453

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 2, connection method: Push-in connection, Rated cross section: 10 mm², cross section: 0.5 mm² - 16 mm², 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<br/>
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- · In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- 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
- · Tested for railway applications

#### Commercial data

Item number	1322453
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2211
GTIN	4063151609153
Weight per piece (including packing)	28.136 g
Weight per piece (excluding packing)	26.12 g
Customs tariff number	85369010
Country of origin	CN



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### Technical data

### Product properties

Product type	Feed-through terminal block
Product family	PT
Area of application	Railway industry
	Machine building
	Plant engineering
Number of connections	2
Number of rows	1
Potentials	1
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.82 W

#### Connection data

Number of connections per level	2
Nominal cross section	10 mm²
Connection method	Push-in connection
Stripping length	18 mm 20 mm
Internal cylindrical gage	A6
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.5 mm² 16 mm²
Cross section AWG	20 6 (converted acc. to IEC)
Conductor cross-section flexible	0.5 mm² 16 mm²
Conductor cross-section, flexible [AWG]	20 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 10 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm² 10 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm² 4 mm²
Nominal current	57 A
Maximum load current	70 A (with a 16 mm² conductor cross-section, rigid)
Nominal voltage	1000 V
Nominal cross section	10 mm²

#### Connection cross sections directly pluggable

Conductor cross-section rigid	1 mm² 16 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	4 mm² 10 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	2.5 mm² 10 mm²



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#### Ex data

Datad data	(ATFX/IFCFx)	
Rated data	I (A I EX/IECEX)	

Identification	
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	3212057 D-PT 10
	1204517 SZF 1-0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-10 / 3005947
	Plug-in bridge / FBS 5-10 / 3005948
Bridge data	48 A (10 mm²)
Ex temperature increase	40 K (52.5 A / 10 mm²)
for bridging with bridge	550 V
Rated insulation voltage	500 V
output	(Permanent)

### Ex level General

Rated voltage	550 V
Rated current	52.5 A
Maximum load current	61.5 A
Contact resistance	0.43 mΩ

#### Ex connection data General

Nominal cross section	10 mm²
Rated cross section AWG	8
Connection capacity rigid	0.5 mm² 16 mm²
Connection capacity AWG	20 6
Connection capacity flexible	0.5 mm² 10 mm²
Connection capacity AWG	20 8

### Dimensions

Width	10.2 mm
End cover width	2.2 mm
Height	67.7 mm
Depth	49.5 mm
Depth on NS 35/7,5	50.5 mm
Depth on NS 35/15	58 mm

### Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C



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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	9.8 kV	
Result	Test passed	

#### Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 10 mm²	1.2 kA
Short-time withstand current 16 mm²	1.92 kA
Result	Test passed

#### Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

#### Mechanical properties

#### Mechanical data

Open side panel	Yes
•	

#### Mechanical tests

Result

#### Mechanical strength

Attachment on the carrier		
DIN rail/fixing support	NS 35	
Test force setpoint	5 N	
Result	Test passed	

Test passed

#### Test for conductor damage and slackening

Total of contractor damage and classic inig	
Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.5 mm² / 0.3 kg
	10 mm² / 2 kg
	16 mm² / 2.9 kg
Result	Test passed



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### Environmental and real-life conditions

Insertion/withdrawal cycles	100
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Aging	400
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 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
ASD level	1.857 (m/s²)²/Hz
Acceleration	0.8g
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	5g
Shock duration	30 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 %
andards and regulations	
Connection in acc. with standard	IEC 60947-7-1
punting	
Mounting type	NS 35/7,5



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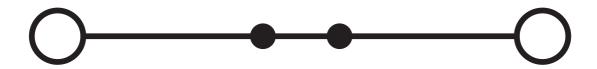


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# Drawings

Circuit diagram





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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1322453



cULus Recognized

Approval ID: E60425



cULus Recognized

Approval ID: E60425

.71	CUL Recognized Approval ID: E192998				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		550 V	60 A	20 - 6	20 - 6

UL Recognized Approval ID: E192998					
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		550 V	60 A	20 - 6	-



**IECEx** 

Approval ID: IECEx SEV13.0005U



**ATEX** 

Approval ID: SEV13ATEX0159U



CCC

Approval ID: 2020322313000631



**EAC Ex** 

Approval ID: KZ 7500525010101950



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27250101	
	ECLASS-15.0	27250101	
ETIM			
	ETIM 9.0	EC000897	
U	NSPSC		
	UNSPSC 21.0	39121400	



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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions	
China RoHS		
Environment friendly use period (EFUP)	EFUP-E	
	No hazardous substances above the limits	
EU REACH SVHC		
REACH candidate substance (CAS No.)	No substance above 0.1 wt%	

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com