

3212064

https://www.phoenixcontact.com/us/products/3212064

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High-current terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: PowerTurn connection, Rated cross section: 35 mm², cross section: 2.5 mm² - 35 mm², mounting type: NS 35/15, color: gray

Your advantages

- · Quick and easy connection is now also possible for large conductors with the high-current terminal block
- 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

 space

 in a confined space

 in a

Commercial data

Item number	3212064
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE22
Product key	BE2211
Catalog page	Page 135 (C-1-2019)
GTIN	4046356726016
Weight per piece (including packing)	91.1 g
Weight per piece (excluding packing)	83.76 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Product properties

Product type	High current terminal block
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	4.06 W

Connection data

Number of connections per level	2
Nominal cross section	35 mm²
Rated cross section AWG	2
Stripping length	25 mm
Conductor cross section rigid	2.5 mm² 35 mm²
Cross section AWG	12 2 (converted acc. to IEC)
Conductor cross section flexible	2.5 mm² 35 mm²
Conductor cross section, flexible [AWG]	12 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm² 35 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm² 35 mm²
Nominal current	125 A
Maximum load current	125 A (with 35 mm² conductor cross section)
Nominal voltage	1000 V
Nominal cross section	35 mm²

Connection cross sections directly pluggable

Conductor cross section rigid	2.5 mm² 35 mm²
Conductor cross section, rigid [AWG]	12 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm² 35 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm² 35 mm²

Ex data

Rated data (ATEX/IECEx)

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Identification	€ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	1206612 SZF 3-1,0X5,5
	1201662 E/AL-NS 35



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Fire protection for rail vehicles (DIN EN 45545-2) R23

Fire protection for rail vehicles (DIN EN 45545-2) R24

Fire protection for rail vehicles (DIN EN 45545-2) R26

Specific optical density of smoke NFPA 130 (ASTM E 662)

Surface flammability NFPA 130 (ASTM E 162)

Smoke gas toxicity NFPA 130 (SMP 800C)

Plug-in bridge / FBS 2-16 / 3005963
89 A / 25 mm²
40 K (120 A/35 mm²)
690 V
690 V
660 V
(Permanent)
109 A
109 A
0.16 mΩ
0.10 1112
25 mm
25 mm
35 mm²
2
2.5 mm² 35 mm²
12 2
6 mm ²
35 mm²
16 mm
91.6 mm
69.8 mm
77.3 mm
gray
V0
I
PA
PA -60 °C
PA -60 °C 130 °C

HL 1 - HL 3

HL 1 - HL 3

HL 1 - HL 3

passed

passed

passed



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Electrical tests

Surge vo	ltage test
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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 35 mm²	4.2 kA
Result	Test passed

Power-frequency withstand voltage

3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No

Test passed

Test passed

Mechanical tests

Result

Mechanical strength

NS 35
10 N
Test passed
10 rpm
135
2.5 mm² / 0.7 kg
35 mm² / 6.8 kg

Environmental and real-life conditions

Aging

Result

799		
Temperature cycles	192	
Result	Test passed	
Needle-flame test		
Needle-flame test Time of exposure	30 s	



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Oscillation/broadband noise
Consideration

Specification	DIN EN 50155 (VDE 0115-200):2008-03
	DIN EN 50155 (VDE 0115-200):2022-06
	DIN EN 50155 (VDE 0115-200):2022-06
pectrum	Service life test category 2, bogie-mounted
	Service life test category 2, bogie-mounted
	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
ASD level	6.12 (m/s²)²/Hz
	6.12 (m/s²)²/Hz
	0.964 (m/s²)²/Hz
Acceleration	3.12g
	3.12g
	5.72 m/s²
Test duration per axis	5 h
	5 h
	5 h
Test directions	X-, Y- and Z-axis
	X-, Y- and Z-axis
	X-, Y- and Z-axis
Result	Test passed
	Test passed

Shocks

Snocks	
Specification	DIN EN 50155 (VDE 0115-200):2008-03
	DIN EN 50155 (VDE 0115-200):2022-06
	DIN EN 50155 (VDE 0115-200):2022-06
Pulse shape	Half-sine
	Half-sine
	Half-sine
Acceleration	30g
	30g
	50 m/s²
Shock duration	18 ms
	18 ms
	30 ms
Number of shocks per direction	3
	3
	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
	X-, Y- and Z-axis (pos. and neg.)
	X-, Y- and Z-axis (pos. and neg.)



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Result	Test passed
	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, no longer than 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 %
ounting	
Outling	
Mounting type	NS 35/15



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Classifications

ECLASS

	ECLASS-11.0	27141120
	ECLASS-13.0	27250101
ETIM		
	ETIM 9.0	EC000897
UNSPSC		
	UNSPSC 21.0	39121400

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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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