3214081

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**PHŒNIX** CONTACT

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Potential collective terminal, nom. voltage: 1000 V, nominal current: 105 A, number of connections: 11, connection method: Screw connection, 1st level connection left, cross section:  $1.5 \text{ mm}^2$  - 50 mm<sup>2</sup>, Push-in connection, First level connection, interior, Rated cross section: 6 mm<sup>2</sup>, cross section:  $0.5 \text{ mm}^2$  - 10 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: blue

### Your advantages

- · The terminal block base is ideal for use in building installation and machine building applications
- · The compact design and front connection enable wiring in a confined space<br/>
- 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

### Commercial data

Item number	3214081
Packing unit	20 рс
Minimum order quantity	20 рс
Sales key	BE22
Product key	BE2219
Catalog page	Page 129 (C-1-2019)
GTIN	4055626170565
Weight per piece (including packing)	76.85 g
Weight per piece (excluding packing)	76.85 g
Customs tariff number	85369010
Country of origin	PL

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## Technical data

otes	
General	In the end application, the applicable safety regulations for overload and short-circuit protection on the connected conductors must be considered.
oduct properties	
Product type	Potential distributor
Number of connections	11
Number of rows	1
Potentials	1
Insulation characteristics	
Overvoltage category	III
Degree of pollution	2
ectrical properties	
Maximum power dissipation for nominal condition	4.06 W
onnection data	
Service Entrance	yes
Number of connections per level	11
1st level connection left	
Screw thread	M6
Tightening torque	3.2 3.7 Nm
Stripping length	18 mm
Internal cylindrical gage	B9
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	1.5 mm <sup>2</sup> 50 mm <sup>2</sup>
Cross section AWG	14 2 (converted acc. to IEC)
Conductor cross section flexible	1.5 mm <sup>2</sup> 50 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	14 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm² 35 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm² 35 mm²
2 conductors with same cross section, solid	1.5 mm <sup>2</sup> 16 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	16 6 (converted acc. to IEC)
2 conductors with same cross section, flexible	1.5 mm² 10 mm²
2 conductors with the same cross-section AWG flexible	16 8 (converted acc. to IEC)
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1.5 mm² 10 mm²
Nominal current	105 A
Nominal current	
Maximum load current	105 A (The maximum load current must not be exceeded by the total current of all connected conductors.)





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Stripping length	12 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm² 10 mm²
Cross section AWG	20 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² 6 mm²
Conductor cross section, flexible [AWG]	20 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 6 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Nominal current	41 A
Maximum load current	41 A
Nominal voltage	1000 V
Nominal cross section level connection right	6 mm <sup>2</sup>
	6 mm <sup>2</sup> 8 mm 10 mm
level connection right	
level connection right Stripping length	8 mm 10 mm
level connection right Stripping length Connection in acc. with standard	8 mm 10 mm IEC 60947-7-1
level connection right Stripping length Connection in acc. with standard Conductor cross section rigid	8 mm 10 mm IEC 60947-7-1 0.14 mm <sup>2</sup> 4 mm <sup>2</sup>
level connection right Stripping length Connection in acc. with standard Conductor cross section rigid Cross section AWG	8 mm 10 mm IEC 60947-7-1 0.14 mm <sup>2</sup> 4 mm <sup>2</sup> 26 12 (converted acc. to IEC)
level connection right Stripping length Connection in acc. with standard Conductor cross section rigid Cross section AWG Conductor cross section flexible	8 mm 10 mm IEC 60947-7-1 0.14 mm <sup>2</sup> 4 mm <sup>2</sup> 26 12 (converted acc. to IEC) 0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
level connection right Stripping length Connection in acc. with standard Conductor cross section rigid Cross section AWG Conductor cross section flexible Conductor cross section, flexible [AWG]	8 mm 10 mm   IEC 60947-7-1   0.14 mm² 4 mm²   26 12 (converted acc. to IEC)   0.14 mm² 2.5 mm²   26 14 (converted acc. to IEC)
level connection right Stripping length Connection in acc. with standard Conductor cross section rigid Cross section AWG Conductor cross section flexible Conductor cross section, flexible [AWG] Conductor cross-section flexible (ferrule without plastic sleeve)	8 mm 10 mm   IEC 60947-7-1   0.14 mm² 4 mm²   26 12 (converted acc. to IEC)   0.14 mm² 2.5 mm²   26 14 (converted acc. to IEC)   0.14 mm² 2.5 mm²   26 14 (converted acc. to IEC)   0.14 mm² 2.5 mm²
level connection right Stripping length Connection in acc. with standard Conductor cross section rigid Cross section AWG Conductor cross section flexible Conductor cross section, flexible [AWG] Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN	8 mm 10 mm   IEC 60947-7-1   0.14 mm² 4 mm²   26 12 (converted acc. to IEC)   0.14 mm² 2.5 mm²   26 14 (converted acc. to IEC)   0.14 mm² 2.5 mm²   0.14 mm² 2.5 mm²
level connection right Stripping length Connection in acc. with standard Conductor cross section rigid Cross section AWG Conductor cross section flexible Conductor cross section, flexible [AWG] Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	8 mm 10 mm IEC 60947-7-1 0.14 mm <sup>2</sup> 4 mm <sup>2</sup> 26 12 (converted acc. to IEC) 0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup> 26 14 (converted acc. to IEC) 0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup> 0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup> 0.5 mm <sup>2</sup> 1.5 mm <sup>2</sup>
level connection right Stripping length Connection in acc. with standard Conductor cross section rigid Cross section AWG Conductor cross section flexible Conductor cross section, flexible [AWG] Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve Nominal current	8 mm 10 mm   IEC 60947-7-1   0.14 mm² 4 mm²   26 12 (converted acc. to IEC)   0.14 mm² 2.5 mm²   26 14 (converted acc. to IEC)   0.14 mm² 2.5 mm²   0.14 mm² 2.5 mm²   0.14 mm² 2.5 mm²   0.5 mm² 1.5 mm²   24 A

Conductor cross section rigid	1 mm <sup>2</sup> 10 mm <sup>2</sup>
Conductor cross section, rigid [AWG]	18 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1 mm² 6 mm²

1st level connection right Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm <sup>2</sup> 4 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm <sup>2</sup> 2.5 mm <sup>2</sup>

#### Dimensions



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Height	110.4 mm
Depth on NS 35/7,5	48.8 mm
Depth on NS 35/15	56.3 mm

#### Material specifications

•	
Color	blue
Flammability rating according to UL 94	V0
Insulating material group	1
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 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

Surge voltage test	
Test voltage setpoint	9.8 kV
Result	Test passed
Short-time withstand current 35 mm <sup>2</sup>	3 kA
Short-time withstand current 50 mm <sup>2</sup>	4.8 kA
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	2.2 kV
Result	Test passed

### Mechanical properties

Mechanical data	
Open side panel	No
Mechanical tests	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35



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Test force setpoint	10 N
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	1.5 mm² / 0.4 kg
	35 mm² / 6.8 kg
	50 mm² / 9.5 kg
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm² / 0.3 kg
	6 mm² / 1.4 kg
	10 mm² / 2 kg
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed

### Environmental and real-life conditions

Aging	
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	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



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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, 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 %
andards and regulations	
Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
	IEC 60947-7-1
ounting	
Mounting type	NS 35/7,5

NS 35/15

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## Classifications

#### ECLASS

	ECLASS-11.0	27141120		
	ECLASS-13.0	27250119		
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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com

