

https://www.phoenixcontact.com/sg/products/3214081

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Potential collective terminal, In the end application, the applicable safety regulations for overload and short-circuit protection on the connected conductors must be considered., nom. voltage: 1000 V, nominal current: 105 A, 1st level connection left, connection method: Screw connection, cross section: 1.5 mm<sup>2</sup> - 50 mm<sup>2</sup>, First level connection, interior, connection method: Push-in connection, Rated cross section: 6 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, mounting: 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 pc
Minimum order quantity	20 рс
Sales key	****
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

Notes	
Notes on operation	In the end application, the applicable safety regulations for overload and short-circuit protection on the connected conductors must be considered.
Product properties	
Product type	Potential distributor
Number of connections	11
Number of rows	1
Potentials	1
Data management status	
Article revision	06
Insulation characteristics	
Overvoltage category	III
Degree of pollution	2
Electrical properties	
Maximum power dissipation for nominal condition	4.06 W
Connection 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 mm² 50 mm²
Cross section AWG	14 2 (converted acc. to IEC)
Conductor cross section flexible	1.5 mm² 50 mm²
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 mm² 16 mm²
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

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Maximum load current	105 A (The maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	1000 V
First level connection, interior	40
Stripping length	12 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.5 mm <sup>2</sup> 10 mm <sup>2</sup>
Cross section AWG	20 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm <sup>2</sup> 6 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	20 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm <sup>2</sup> 6 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm <sup>2</sup> 6 mm <sup>2</sup>
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	6 mm²
Ist level connection right	
Stripping length	8 mm 10 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm <sup>2</sup> 4 mm <sup>2</sup>
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	26 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> 2.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Nominal current	24 A
Maximum load current	24 A
Nominal voltage	1000 V
Nominal cross section	2.5 mm²
First level connection, interior Connection cross sections directly plugg	able
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 mm <sup>2</sup> 6 mm <sup>2</sup>
	1 mm <sup>2</sup> 6 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	1 11111 0 11111
st 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>



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#### Dimensions

Width	16.3 mm
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 (RAL 5015)
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

Mechanical strength	
Result	Test passed



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DIN rail/fixing support	NS 35
Fest force setpoint	10 N
Result	Test passed
est 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
est 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
est 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
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192
Test passed
30 s
Test passed
DIN EN 50155 (VDE 0115-200):2008-03
Service life test category 2, bogie-mounted
$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz



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Test directions	X-, Y- and Z-axis
Result	Test passed
hocks	
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
mbient 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 %
ndards and regulations	
Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
	IEC 60947-7-1
unting	
Mounting type	NS 35/7,5
	NS 35/15



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Drawings

Circuit diagram

# **1...4 1...6** O-O----O

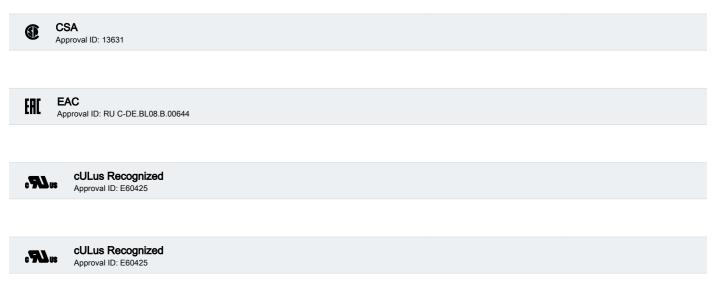
HŒR

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## Approvals

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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

#### 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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