

3214080

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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 mm<sup>2</sup> - 50 mm<sup>2</sup>, Push-in connection, First level connection, interior, Rated cross section: 6 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

### 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/>
  space<br/>
  in a confined space<br/>
  in a
- · 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	3214080
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	BE22
Product key	BE2219
Catalog page	Page 128 (C-1-2019)
GTIN	4055626167619
Weight per piece (including packing)	76.8 g
Weight per piece (excluding packing)	76.8 g
Customs tariff number	85369010
Country of origin	PL



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## Technical data

#### Notes

General	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

#### 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

Service Entrance	yes
Number of connections per level	11

#### 1st level connection left

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
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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Nominal voltage	1000 V
irst level connection, interior	
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	6 mm²
st level connection right	
Stripping length	8 mm 10 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm² 4 mm²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section, flexible [AWG]	26 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 2.5 mm²
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
irst level connection, interior Connection cross sections directly plugg	gable
Conductor cross section rigid	1 mm² 10 mm²
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
st level connection right Connection cross sections directly pluggable	
Conductor cross section rigid	0.34 mm² 4 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² 2.5 mm²

### Dimensions



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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	gray
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 mm²	3 kA
Short-time withstand current 50 mm²	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
open ciae paner	110

#### Mechanical tests

#### Mechanical strength

Result	Test passed

#### Attachment on the carrier



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Toot force extraint	
Test 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
Conductor cross section, weight	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
	· ······ / o.o r.g
Result	Test passed
vironmental and real-life conditions	Test passed
vironmental and real-life conditions	Test passed
vironmental and real-life conditions	
vironmental and real-life conditions  ging  Temperature cycles  Result	192
vironmental and real-life conditions  ging  Temperature cycles  Result	192
vironmental and real-life conditions  ging  Temperature cycles  Result  leedle-flame test	192 Test passed
vironmental and real-life conditions  ging Temperature cycles Result  leedle-flame test Time of exposure Result	192 Test passed 30 s
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vironmental and real-life conditions  Iging  Temperature cycles  Result  Ideedle-flame test  Time of exposure  Result  Discillation/broadband noise	192 Test passed  30 s Test passed
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vironmental and real-life conditions  Aging Temperature cycles Result  Reedle-flame test Time of exposure Result  Descillation/broadband noise Specification Spectrum Frequency	Test passed  30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03 Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
vironmental and real-life conditions  Iging Temperature cycles Result  Ideedle-flame test Time of exposure Result  Discillation/broadband noise Specification Spectrum Frequency ASD level	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/s²)²/Hz
vironmental and real-life conditions  ging Temperature cycles Result  leedle-flame test Time of exposure Result  Discillation/broadband noise Specification Spectrum Frequency ASD level Acceleration	Test passed  30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03 Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$



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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 $^{\circ}\text{C}$ 110 $^{\circ}\text{C}$ (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 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
	IEC 60947-7-1

### Mounting

Mounting type	NS 35/7,5
	NS 35/15



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## Classifications

### **ECLASS**

	ECLASS-11.0	27141120
	ECLASS-13.0	27250119
	TINA	
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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