

3210542

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Motor terminal block, four-level, connection method: push-in connection, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26- 12, width: 5.2 mm, height: 91.1 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

#### 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

#### Commercial data

Item number	3210542
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2216
Catalog page	Page 73 (C-1-2019)
GTIN	4046356867108
Weight per piece (including packing)	26.518 g
Weight per piece (excluding packing)	26.518 g
Customs tariff number	85369010
Country of origin	PL



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### Technical data

#### Product properties

Product type	Motor terminal block
Number of connections	7
Number of rows	4
Potentials	4
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

#### Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

#### Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	2.5 mm²

#### 1st, 2nd, 3rd and 4th level

Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
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 4 mm²
Conductor cross section, flexible [AWG]	26 12 (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 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 mm <sup>2</sup>
Nominal current	20 A (with a 2.5 mm² conductor cross section)
Maximum load current	25 A (with 4 mm² conductor cross section, rigid)
Nominal voltage	800 V
Nominal cross section	2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup>

#### 1st, 2nd, 3rd and 4th level Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm² 4 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² 2.5 mm²



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#### 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**

Width	5.2 mm
End cover width	2.2 mm
Height	99.5 mm
Depth	91.1 mm
Depth on NS 35/7,5	92.6 mm
Depth on NS 35/15	100.1 mm

#### Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °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)	27,5 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
Temperature-rise test	

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 2.5 mm²	0.3 kA
Short-time withstand current 4 mm²	0.48 kA
Result	Test passed

#### Power-frequency withstand voltage



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Test voltage setpoint Result	2 kV
Result	Z NV
	Test passed
achanical proportion	
echanical properties	
Mechanical data	
Open side panel	Yes
echanical tests	
Mechanical strength	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed
Test for conductor damage and slackening	
	10 rpm
ROTATION SDEED	
Rotation speed Revolutions	135
Revolutions	135 0.14 mm² / 0.2 kg
	135 0.14 mm² / 0.2 kg 2.5 mm² / 0.7 kg
Revolutions	0.14 mm² / 0.2 kg
Revolutions Conductor cross section/weight Result	0.14 mm² / 0.2 kg 2.5 mm² / 0.7 kg
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging	0.14 mm² / 0.2 kg 2.5 mm² / 0.7 kg 4 mm² / 0.9 kg Test passed
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging Temperature cycles	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging	0.14 mm² / 0.2 kg 2.5 mm² / 0.7 kg 4 mm² / 0.9 kg Test passed
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging Temperature cycles	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging Temperature cycles Result	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging Temperature cycles Result  Needle-flame test	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging Temperature cycles Result  Needle-flame test Time of exposure	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed  192  Test passed  30 s
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging Temperature cycles Result  Needle-flame test Time of exposure Result	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed  192  Test passed  30 s
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging Temperature cycles Result  Needle-flame test Time of exposure Result  Oscillation/broadband noise	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed  192  Test passed  30 s  Test passed
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging Temperature cycles Result  Needle-flame test Time of exposure Result  Oscillation/broadband noise Specification	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed  192  Test passed  30 s  Test passed  DIN EN 50155 (VDE 0115-200):2008-03
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging Temperature cycles Result  Needle-flame test Time of exposure Result  Oscillation/broadband noise Specification Spectrum	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed  192  Test passed  30 s  Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Service life test category 2, bogie-mounted
Revolutions Conductor cross section/weight  Result  Aging Temperature cycles Result  Needle-flame test Time of exposure Result  Oscillation/broadband noise Specification Spectrum Frequency	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed  192  Test passed  30 s  Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Service life test category 2, bogie-mounted  f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz
Revolutions Conductor cross section/weight  Result  nvironmental and real-life conditions  Aging Temperature cycles Result  Needle-flame test Time of exposure Result  Oscillation/broadband noise Specification Spectrum Frequency ASD level	0.14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  Test passed  192  Test passed  30 s  Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Service life test category 2, bogie-mounted  f₁ = 5 Hz to f₂ = 250 Hz  6.12 (m/s²)²/Hz
Revolutions Conductor cross section/weight  Result  Aging Temperature cycles Result  Needle-flame test Time of exposure Result  Oscillation/broadband noise Specification Spectrum Frequency ASD level Acceleration	$0.14 \text{ mm}^2 / 0.2 \text{ kg}$ $2.5 \text{ mm}^2 / 0.7 \text{ kg}$ $4 \text{ mm}^2 / 0.9 \text{ kg}$ Test passed $192$ Test passed $30 \text{ s}$ Test passed $DIN \text{ EN } 50155 \text{ (VDE } 0115\text{-}200)\text{:}2008\text{-}03$ Service life test category 2, bogie-mounted f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$



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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 60947-7-2
ounting	
Mounting type	NS 35/7,5
	NS 35/15



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27141125		
	ECLASS-12.0	27141125		
	ECLASS-13.0	27250110		
ETIM				
	ETIM 9.0	EC001329		
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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