

3270145

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Potential distributors, nom. voltage: 250 V, nominal current: 17.5 A, connection method: Push-in connection, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 2.5 mm², mounting: NS 35/7,5, NS 35/15, color: blue, color of connection elements: black

Your advantages

- · Tool-free wiring in a confined space thanks to compact size
- Potential distributor for distributing potentials up to 17.5 A in EXi areas
- · High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- The 2.3 mm test pick-off enables testing between the conductors with commercially available test probes

Commercial data

Item number	3270145
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BE62
Product key	BE6211
Catalog page	Page 51 (C-1-2019)
GTIN	4046356796200
Weight per piece (including packing)	33.74 g
Weight per piece (excluding packing)	33.74 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Product properties

Product type	Potential distributor	
Number of positions	2	
Number of connections	32	
Number of rows	8	
Potentials	1	
Insulation characteristics		
Overvoltage category	III	

Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Number of connections per level	4
Nominal cross section	1.5 mm ²

1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level

Stripping length	8 mm 10 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm² 2.5 mm²
Cross section AWG	26 14 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section, flexible [AWG]	26 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 1.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 1.5 mm²
Nominal current	17.5 A
Maximum load current	20 A (in case of a 2.5 mm² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	250 V
Nominal cross section	1.5 mm²

1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level Connection cross sections directly pluggable

Conductor cross section rigid	0.34 mm² 2.5 mm²
Conductor cross section, rigid [AWG]	20 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² 1.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm ² 1.5 mm ²

Dimensions

Width	8.3 mm
Height	100 mm



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Mechanical strength

Depth on NS 35/7,5	87.5 mm
Depth on NS 35/15	95 mm
rial specifications	
Color	blue
Color of connection elements	black
Flammability rating according to UL 94	V0
nsulating material group	I
nsulating 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) rical tests	passed
	passed
rical tests	passed 4.8 kV
rical tests rge voltage test	
rical tests rge voltage test Test voltage setpoint	4.8 kV
rrical tests rge voltage test Test voltage setpoint Result mperature-rise test	4.8 kV
rical tests rge voltage test Test voltage setpoint Result mperature-rise test Requirement temperature-rise test	4.8 kV Test passed
rical tests rge voltage test Test voltage setpoint Result	4.8 kV Test passed Increase in temperature ≤ 45 K
rrical tests rge voltage test Test voltage setpoint Result mperature-rise test Requirement temperature-rise test Result	4.8 kV Test passed Increase in temperature ≤ 45 K Test passed
rrical tests rge voltage test Test voltage setpoint Result mperature-rise test Requirement temperature-rise test Result Short-time withstand current 1.5 mm²	4.8 kV Test passed Increase in temperature ≤ 45 K Test passed 0.18 kA
rrical tests rge voltage test Test voltage setpoint Result mperature-rise test Requirement temperature-rise test Result Short-time withstand current 1.5 mm² Short-time withstand current 2.5 mm² Result	4.8 kV Test passed Increase in temperature ≤ 45 K Test passed 0.18 kA 0.3 kA
rical tests rge voltage test Test voltage setpoint Result mperature-rise test Requirement temperature-rise test Result Short-time withstand current 1.5 mm²	4.8 kV Test passed Increase in temperature ≤ 45 K Test passed 0.18 kA 0.3 kA
rical tests rge voltage test Test voltage setpoint Result mperature-rise test Requirement temperature-rise test Result Short-time withstand current 1.5 mm² Short-time withstand current 2.5 mm² Result wer-frequency withstand voltage	4.8 kV Test passed Increase in temperature ≤ 45 K Test passed 0.18 kA 0.3 kA Test passed
rical tests rge voltage test Test voltage setpoint Result mperature-rise test Requirement temperature-rise test Result Short-time withstand current 1.5 mm² Short-time withstand current 2.5 mm² Result wer-frequency withstand voltage Test voltage setpoint	4.8 kV Test passed Increase in temperature ≤ 45 K Test passed 0.18 kA 0.3 kA Test passed
rical tests rge voltage test Test voltage setpoint Result mperature-rise test Requirement temperature-rise test Result Short-time withstand current 1.5 mm² Short-time withstand current 2.5 mm² Result wer-frequency withstand voltage Test voltage setpoint Result	4.8 kV Test passed Increase in temperature ≤ 45 K Test passed 0.18 kA 0.3 kA Test passed



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Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed
Fest for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm² / 0.2 kg
	1.5 mm² / 0.4 kg
	2.5 mm² / 0.7 kg
Result	Test passed
vironmental and real-life conditions	
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
Spectrum Frequency	Service life test category 2, bogie-mounted $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
Spectrum Frequency ASD level	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ 6.12 (m/s ²) ² /Hz
Frequency ASD level Acceleration	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
Frequency ASD level	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$
Frequency ASD level Acceleration Test duration per axis	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h
Frequency ASD level Acceleration Test duration per axis Test directions Result	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z-\text{axis}$
Frequency ASD level Acceleration Test duration per axis Test directions Result	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z-\text{axis}$
Frequency ASD level Acceleration Test duration per axis Test directions Result	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X^-, Y^- \text{ and } Z^- \text{axis}$ Test passed
Frequency ASD level Acceleration Test duration per axis Test directions Result Shocks Specification	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z\text{-axis}$ Test passed $DIN \text{ EN } 50155 \text{ (VDE } 0115\text{-}200):2008\text{-}03$
Frequency ASD level Acceleration Test duration per axis Test directions Result Shocks Specification Pulse shape	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z-\text{axis}$ Test passed $DIN \text{ EN } 50155 \text{ (VDE } 0115-200):2008-03$ Half-sine
Frequency ASD level Acceleration Test duration per axis Test directions Result Shocks Specification Pulse shape Acceleration	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z\text{-axis}$ Test passed $DIN \text{ EN } 50155 \text{ (VDE } 0115\text{-}200)\text{:}2008\text{-}03$ Half-sine $30g$
Frequency ASD level Acceleration Test duration per axis Test directions Result Shocks Specification Pulse shape Acceleration Shock duration	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X, Y \text{ and } Z\text{axis}$ $Test \text{ passed}$ $DIN EN 50155 \text{ (VDE 0115-200):} 2008-03$ $Half\text{-sine}$ $30g$ 18 ms
Frequency ASD level Acceleration Test duration per axis Test directions Result Shocks Specification Pulse shape Acceleration Shock duration Number of shocks per direction	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z-\text{axis}$ $Test \text{ passed}$ $DIN EN 50155 \text{ (VDE 0115-200):} 2008-03$ $Half-sine$ $30g$ 18 ms 3
Frequency ASD level Acceleration Test duration per axis Test directions Result Shocks Specification Pulse shape Acceleration Shock duration Number of shocks per direction Test directions	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ 5 h $X-, Y- \text{ and } Z-\text{axis}$ Test passed $DIN \text{ EN } 50155 \text{ (VDE } 0115-200):2008-03$ Half-sine $30g$ 18 ms 3 $X-, Y- \text{ and } Z-\text{axis (pos. and neg.)}$



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Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C 70 °C
Ambient temperature (actuation)	-5 °C 70 °C
Permissible humidity (storage/transport)	30 % 70 %
Standards and regulations Connection in acc. with standard	IFC 60047 7 4
Connection in acc. with standard	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	
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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