

3211778

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 2, connection method: Push-in connection, Rated cross section: 4 mm $^2$ , cross section: 0.2 mm $^2$  - 6 mm $^2$ , mounting type: NS 35/7,5, NS 35/15, color: white

### Your advantages

- 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
- · In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The compact design and front connection enable wiring in a confined space<br/>

  br/>
- · Tested for railway applications

#### Commercial data

Item number	3211778
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2211
GTIN	4046356893923
Weight per piece (including packing)	8.563 g
Weight per piece (excluding packing)	8.562 g
Customs tariff number	85369010
Country of origin	CN



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### Technical data

### Product properties

Product type	Feed-through terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of connections	2
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	1.02 W

#### Connection data

Number of connections per level	2
Nominal cross section	4 mm²
Stripping length	10 mm 12 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm² 6 mm²
Cross section AWG	24 10 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² 6 mm²
Conductor cross section, flexible [AWG]	24 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> 1 mm <sup>2</sup>
Nominal current	32 A
Maximum load current	36 A (with 6 mm² conductor cross section, rigid)
Nominal voltage	800 V
Nominal cross section	4 mm²

#### Connection cross sections directly pluggable

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Conductor cross section rigid	0.5 mm² 6 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.75 mm² 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 4 mm²

#### Ex data



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#### Rated data (ATEX/IECEx)

Identification	
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	3030420 D-ST 4
	3030721 ATP-ST 4
	1204517 SZF 1-0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-6 / 3030336
	Plug-in bridge / FBS 3-6 / 3030242
	Plug-in bridge / FBS 4-6 / 3030255
	Plug-in bridge / FBS 5-6 / 3030349
	Plug-in bridge / FBS 10-6 / 3030271
	Plug-in bridge / FBS 20-6 / 3030365
Bridge data	25 A / 4 mm²
Ex temperature increase	40 K (26 A / 4 mm²)
Rated voltage	550 V
for bridging with bridge	550 V
- At bridging between non-adjacent terminal blocks	352 V
- At bridging between non-adjacent terminal blocks via PE terminal block	352 V
- At cut-to-length bridging	220 V
- At cut-to-length bridging with cover	275 V
- At cut-to-length bridging with partition plate	550 V
Rated insulation voltage	500 V
output	(Permanent)

#### Ex level General

Rated current	26 A (4 mm²)
Maximum load current	30 A (6 mm²)
Contact resistance	0.59 mΩ

#### Ex connection data General

Nominal cross section	4 mm²
Rated cross section AWG	12
Connection capacity rigid	0.2 mm² 6 mm²
Connection capacity AWG	24 10
Connection capacity flexible	0.2 mm² 4 mm²
Connection capacity AWG	24 12

#### **Dimensions**

Width	6.2 mm
End cover width	2.2 mm
Height	56 mm
Depth	35.3 mm



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Depth on NS 35/7,5	36.5 mm
Depth on NS 35/15	44 mm
aterial specifications	
Color	white
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °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
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
Test voltage setpoint	9.8 kV
Test voltage setpoint	
Test voltage setpoint  Result	9.8 kV Test passed
Test voltage setpoint  Result  Temperature-rise test	Test passed
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test	Test passed  Increase in temperature ≤ 45 K
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result	Test passed  Increase in temperature ≤ 45 K  Test passed
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result  Short-time withstand current 4 mm²	Test passed  Increase in temperature ≤ 45 K  Test passed  0.48 kA
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result  Short-time withstand current 4 mm²  Short-time withstand current 6 mm²	Test passed  Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result  Short-time withstand current 4 mm²	Test passed  Increase in temperature ≤ 45 K  Test passed  0.48 kA
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result  Short-time withstand current 4 mm²  Short-time withstand current 6 mm²  Result	Test passed  Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result  Short-time withstand current 4 mm²  Short-time withstand current 6 mm²  Result	Test passed  Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result  Short-time withstand current 4 mm²  Short-time withstand current 6 mm²  Result  Power-frequency withstand voltage	Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA  Test passed
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result  Short-time withstand current 4 mm²  Short-time withstand current 6 mm²  Result  Power-frequency withstand voltage  Test voltage setpoint	Test passed  Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA  Test passed
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result  Short-time withstand current 4 mm²  Short-time withstand current 6 mm²  Result  Power-frequency withstand voltage  Test voltage setpoint  Result  Echanical properties	Test passed  Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA  Test passed
Test voltage setpoint Result  Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 4 mm² Short-time withstand current 6 mm² Result  Power-frequency withstand voltage Test voltage setpoint Result  Pechanical properties  Mechanical data	Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA  Test passed  2 kV  Test passed
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result  Short-time withstand current 4 mm²  Short-time withstand current 6 mm²  Result  Power-frequency withstand voltage  Test voltage setpoint  Result  Echanical properties	Test passed  Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA  Test passed
Test voltage setpoint Result  Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 4 mm² Short-time withstand current 6 mm² Result  Power-frequency withstand voltage  Test voltage setpoint Result  Pchanical properties  Mechanical data  Open side panel	Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA  Test passed  2 kV  Test passed
Test voltage setpoint  Result  Temperature-rise test  Requirement temperature-rise test  Result  Short-time withstand current 4 mm²  Short-time withstand current 6 mm²  Result  Power-frequency withstand voltage  Test voltage setpoint  Result  Chanical properties  Mechanical data  Open side panel	Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA  Test passed  2 kV  Test passed
Test voltage setpoint Result  Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 4 mm² Short-time withstand current 6 mm² Result  Power-frequency withstand voltage Test voltage setpoint Result  Pechanical properties  Mechanical data	Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA  Test passed  2 kV  Test passed
Test voltage setpoint Result  Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 4 mm² Short-time withstand current 6 mm² Result  Power-frequency withstand voltage Test voltage setpoint Result  Chanical properties  Mechanical data Open side panel  Chanical strength	Test passed  Increase in temperature ≤ 45 K  Test passed  0.48 kA  0.72 kA  Test passed  2 kV  Test passed



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st for conductor damage and slackening  Rotation speed  Revolutions  Conductor cross section/weight	Test passed  10 rpm  135  0.2 mm² / 0.2 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Test passed
Rotation speed  Revolutions  Conductor cross section/weight	135 0.2 mm² / 0.2 kg 4 mm² / 0.9 kg 6 mm² / 1.4 kg
Revolutions  Conductor cross section/weight	135 0.2 mm² / 0.2 kg 4 mm² / 0.9 kg 6 mm² / 1.4 kg
Conductor cross section/weight	0.2 mm² / 0.2 kg 4 mm² / 0.9 kg 6 mm² / 1.4 kg
	4 mm² / 0.9 kg 6 mm² / 1.4 kg
	6 mm² / 1.4 kg
Result	Test passed
ronmental and real-life conditions	
Jing	400
	192 Test second
Result	Test passed
eedle-flame test	
Time of exposure	30 s
Result	Test passed
cillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2008-03
	DIN EN 50155 (VDE 0115-200):2022-06
	Service life test category 2, bogie-mounted
	Service life test category 1, class B, body mounted
Frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz
	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
ASD level	6.12 (m/s²)²/Hz
	0.964 (m/s²)²/Hz
Acceleration	3.12g
	0.58g
Test duration per axis	5 h
	5 h
Test directions	X-, Y- and Z-axis
	X-, Y- and Z-axis
Result	Test passed
	Test passed
ocks	
	DIN EN 50155 (VDE 0115-200):2008-03
	DIN EN 50155 (VDE 0115-200):2022-06
	Half-sine
·	Half-sine
	30g
	5g



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Shock duration	18 ms
	30 ms
Number of shocks per direction	3
	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed
	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 %
Standards and regulations	
Connection in acc. with standard	IEC 60947-7-1
Mounting	
Mounting type	NS 35/7,5
	NS 35/15

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