3044652

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Double-level terminal block, with equipotential bonder, nom. voltage: 500 V, nominal current: 24 A, connection method: Screw connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- · Since there are two function shafts per level, all potential distribution tasks can be implemented quickly
- · For a clear overview, each terminal point supports large-surface labeling
- · For example, two separate potentials can by routed side by side with the help of bridging between non-adjacent terminal blocks
- · Tested for railway applications

Commercial data

Item number	3044652
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE01
Product key	BE1114
Catalog page	Page 149 (C-1-2019)
GTIN	4017918997021
Weight per piece (including packing)	16.54 g
Weight per piece (excluding packing)	16.036 g
Customs tariff number	85369010
Country of origin	DE

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Technical data

Product properties

Product type	Multi-level terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of connections	4
Number of rows	2
Potentials	1
Insulation characteristics	
	Ш
Overvoltage category	3
Degree of pollution	3
Electrical properties	
Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W
Connection data	
Number of connections per level	2
Nominal cross section	2.5 mm ²
Level 1+2	
Screw thread	МЗ
Tightening torque	0.5 0.6 Nm
Stripping length	9 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm ² 4 mm ²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm ² 4 mm ²
Conductor cross section, flexible [AWG]	26 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² 2.5 mm ²
2 conductors with same cross section, solid	0.14 mm ² 1.5 mm ²
2 conductors with same cross section, flexible	0.14 mm ² 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.14 mm ² 1.5 mm ²
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	28 A (in case of a 4 mm ² conductor cross section, the maximum load current must not be exceeded by the total current of all





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	connected conductors.)
Nominal voltage	500 V
Nominal cross section	2.5 mm ²

Ex data

Rated	data	(ATEX/IECEx)
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Identification	ll 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	3047293 D-UTTB 2,5/4
	3047303 DP-UTTB 2,5/4
	3047316 ATP-UTTB 2,5/4
	1205053 SZS 0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-5 / 3030161
	Plug-in bridge / FBS 3-5 / 3030174
	Plug-in bridge / FBS 4-5 / 3030187
	Plug-in bridge / FBS 5-5 / 3030190
	Plug-in bridge / FBS 10-5 / 3030213
	Plug-in bridge / FBS 20-5 / 3030226
Bridge data	20 A / 2.5 mm²
Ex temperature increase	40 K (23.3 A / 2.5 mm²)
Rated voltage	352 V
for bridging with bridge	352 V
- At bridging between non-adjacent terminal blocks	352 V
 At bridging between non-adjacent terminal blocks via PE terminal block 	275 V
- At cut-to-length bridging with cover	220 V
- At cut-to-length bridging with partition plate	176 V
Rated insulation voltage	320 V
output	(Permanent)
level General	
Rated current	21 A
Maximum load current	26.5 A
Contact resistance	0.66 mΩ
connection data General	
Torque range	0.5 Nm 0.6 Nm
Nominal cross section	2.5 mm ²
Rated cross section AWG	14
Connection capacity rigid	0.14 mm ² 4 mm ²
Connection capacity rigid Connection capacity AWG	
	0.14 mm ² 4 mm ²

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2 conductors with same cross section, solid	0.14 mm² 1.5 mm²
2 conductors with the same cross-section AWG rigid	26 16
2 conductors with same cross section, stranded	0.14 mm ² 1.5 mm ²
2 conductors with the same cross-section AWG flexible	26 16

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	69.9 mm
Depth	64.4 mm
Depth on NS 35/7,5	65 mm
Depth on NS 35/15	72.5 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))	152 °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	
Result	Test passed
Temperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties



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Mechanical data	
	Ver
Open side panel	Yes
lechanical tests	
Mechanical strength	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 32/NS 35
Test force setpoint	1 N
Result	Test passed
Test for each standard and a standard a standard	
Test 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
nvironmental and real-life conditions	
Needle-flame test	
Time of exposure	30 s
Result	Test passed
Oscillation/broadband noise	

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis

Shocks

Shocks	
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.)
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)

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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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Classifications

ECLASS

	ECLASS-11.0	27141120		
	ECLASS-13.0	27250102		
ETIM				
	ETIM 9.0	EC000897		
UNSPSC				
	UNSPSC 21.0	39121400		

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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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