

3038451

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Disconnect terminal block, The max. load current must not be exceeded by the total current of all connected conductors.

Current and voltage are determined by the plug used., nom. voltage: 400 V, nominal current: 20 A, 1 level, connection method: Spring-cage connection, Rated cross section: $2.5~\text{mm}^2$, cross section: $0.08~\text{mm}^2$ - $4~\text{mm}^2$, mounting: NS 35/7,5, NS 35/15, color: gray

Your advantages

- Three and four-conductor terminal blocks can be used for multi-conductor connections
- · User-friendly wiring thanks to front connection
- Test pick-off parallel to the disconnect point for test plugs with 2.3 mm diameter
- · Tested for railway applications
- · Consistent and can be double bridged for all tasks in time-saving potential supply and distribution

Commercial data

Item number	3038451
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2132
Catalog page	Page 216 (C-1-2019)
GTIN	4017918890599
Weight per piece (including packing)	10.83 g
Weight per piece (excluding packing)	10.425 g
Customs tariff number	85369010
Country of origin	DE



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Technical data

Notes

General	The max. load current must not be exceeded by the total current
	of all connected conductors.
	Current and voltage are determined by the plug used.

Product properties

Product type	Disconnect terminal block
Area of application	Railway industry
	Machine building
	Plant engineering
Number of connections	4
Number of rows	1
Potentials	1

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

Number of connections per level	4
Nominal cross section	2.5 mm²

1 level

Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.08 mm² 4 mm²
Cross section AWG	28 12 (converted acc. to IEC)
Conductor cross section flexible	0.08 mm² 2.5 mm²
Conductor cross section, flexible [AWG]	28 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
Nominal current	20 A (with 4 mm² conductor cross section)
Maximum load current	20 A (with 4 mm² conductor cross section)
Nominal voltage	400 V (voltage is determined by the plug used)
Nominal cross section	2.5 mm²



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Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	84 mm
Depth on NS 35/7,5	36.5 mm
Depth on NS 35/15	44 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))	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	7.3 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
Result	Test passed

Power-frequency withstand voltage

r ower mediciney without voltage	
Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes



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Mechanical tests

lechanical strength		
Result	Test passed	
ttachment on the carrier		
DIN rail/fixing support	NS 35	
Test force setpoint	1 N	
Result	Test passed	
est for conductor damage and slackening Rotation speed	10 rpm	
	10 rpm 135	
Rotation speed		
Rotation speed Revolutions	135	
Rotation speed Revolutions	135 0.08 mm² / 0.1 kg	

Environmental 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
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g

5 h

X-, Y- and Z-axis
Test passed

Shocks

Result

Test duration per axis

Test directions

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



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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, 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 (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

UNSPSC 21.0

ECLASS

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	ECLASS-11.0	27141126	
	ECLASS-12.0	27141126	
	ECLASS-13.0	27250108	
ET	ETIM		
	ETIM 9.0	EC000902	
UNSPSC			

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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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