Bolt connection terminal block - RT 8 - 3049042

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Bolt connection terminal block, Connection type: Bolt connection, Cross section: 2.5 mm² - 35 mm², AWG: 14 - 2, Nominal current: 125 A, Nominal voltage: 1000 V, Length: 84 mm, Width: 20.3 mm, Color: gray, Assembly: NS 35/7,5, NS 35/15

Product Features

- The special clamping nuts can be actuated with a normal screwdriver
- Easy bridging and potential distribution using the patented plug-in bridges from the CLIPLINE complete system
- Quick and easy connection thanks to hinged cover flaps which hold the clamping nuts captive. When the flaps are open, the connection bolt is freely accessible and the cable lugs can be hooked in; after closing and engaging the flaps
- The screws are secured against loosening by captive spring-loaded spacers
- Large-surface labeling options in the terminal center and above the terminal points
- The use of the switching lock effectively prevents unintentional switching
- The hinged cover cover the live metal parts including the insulated cable lugs in the clamping area so that they are touch proof
- Testing with the standardized test adapters and test plugs of the CLIPLINE complete system
- Tested for railway applications

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
Weight per Piece (excluding packing)	95.688 g
Custom tariff number	85369010
Country of origin	China

Technical data

General

Note	Note: the BE-RT... path extension is to be used for non-insulated cable lugs (see accessories).
Number of levels	1

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Technical data

General

Number of connections	2
Nominal cross section	35 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
	Mechanical engineering
	Plant engineering
	Process industry
Rated surge voltage	8 kV
Pollution degree	3
Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	125 A (with 35 mm² conductor cross section)
Nominal current I_N	125 A
Nominal voltage U_N	1000 V (Rated voltage for open disconnect point 500 V)
Open side panel	ja
Number of positions	1
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Tight fit on carrier	NS 35
Setpoint	10 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	35 mm²
Short-time current	4.2 kA
Short circuit stability result	Test passed

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Technical data

General

Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, body mounted
Test frequency	f_1 = 5 Hz to f_2 = 150 Hz
ASD level	0.02 g²/Hz
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Oscillation, broadband noise test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	120 °C

Dimensions

Width	20.3 mm
End cover width	2.2 mm
Length	84 mm
Height NS 35/7,5	63.8 mm
Height NS 35/15	71.3 mm

Connection data

Note	Connection bolts
Connection method	Bolt connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	2.5 mm²
Conductor cross section solid max.	35 mm²
Conductor cross section AWG min.	14
Conductor cross section AWG max.	2
Conductor cross section flexible min.	2.5 mm²
Conductor cross section flexible max.	35 mm²
Min. AWG conductor cross section, flexible	14
Max. AWG conductor cross section, flexible	2

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Technical data

Connection data

Cable lug connection according to standard	DIN 46 234
Min. cross section for cable lug connection	2.5 mm²
Max. cross section for cable lug connection	35 mm²
Hole diameter	8.4 mm
Width	16 mm
Bolt diameter	8 mm
Cable lug connection according to standard	DIN 46237
Min. cross section for cable lug connection	2.5 mm²
Max. cross section for cable lug connection	6 mm²
Hole diameter	8.4 mm
Width	14 mm
Bolt diameter	8 mm
Screw thread	M8
Tightening torque, min	4.5 Nm
Tightening torque max	5 Nm

Standards and Regulations

Connection in acc. with standard	CUL
	IEC 60947-7-1
	DIN 46 234
	DIN 46237
Flammability rating according to UL 94	V0

Classifications

eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897

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Classifications

ETIM

ETIM 4.0	EC000897
ETIM 5.0	EC000897

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

UL Recognized / VDE Zeichengenehmigung / cUL Recognized / ABS / IECEE CB Scheme / VDE Zeichengenehmigung / EAC / EAC / cULus Recognized

Ex Approvals

ATEX / IECEx / EAC Ex

Approvals submitted

Approval details

UL Recognized

	B	C
Nominal current IN	130 A	130 A
Nominal voltage UN	600 V	600 V

VDE Zeichengenehmigung

mm²/AWG/kcmil	2.5-35

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Approvals

Nominal current IN	125 A
Nominal voltage UN	1000 V

cUL Recognized

	B	C
Nominal current IN	130 A	130 A
Nominal voltage UN	600 V	600 V

ABS

IECEE CB Scheme

VDE Zeichengenehmigung

mm²/AWG/kcmil	2.5-35
Nominal current IN	125 A
Nominal voltage UN	1000 V

EAC

EAC

cULus Recognized

Drawings

Circuit diagram