

Bolt connection terminal block - RT 3 - 3049013

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Bolt connection terminal block, Connection type: Bolt connection, Cross section: 0.1 mm² - 2.5 mm², AWG: 26 - 14, Nominal current: 24 A, Nominal voltage: 1000 V, Length: 66 mm, Width: 12.3 mm, Color: gray, Assembly: NS 35/7,5, NS 35/15

Product Features

- The special clamping nuts can be actuated with a normal screwdriver
- The screws are secured against loosening by captive spring-loaded spacers
- 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
- Easy bridging and potential distribution using the patented plug-in bridges from the CLIPLINE complete system
- Large-surface labeling options in the terminal center and above the terminal points
- The use of the switching lock effectively prevents unintentional switching
- Testing with the standardized test adapters and test plugs of the CLIPLINE complete system
- The hinged cover cover the live metal parts including the insulated cable lugs in the clamping area so that they are touch proof
- Tested for railway applications



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
Weight per Piece (excluding packing)	26.0 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

Bolt connection terminal block - RT 3 - 3049013

Technical data

General

Number of connections	2
Nominal cross section	2.5 mm ²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	24 A (with a 2.5 mm ² conductor cross section)
Nominal current I _N	24 A
Nominal voltage U _N	1000 V (Rated voltage for open disconnect point 500 V)
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	1 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	2.5 mm ²
Short-time current	0.3 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s

Bolt connection terminal block - RT 3 - 3049013

Technical data

General

Oscillation, broadband noise test result	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	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	0.02 g ² /Hz
Acceleration	0,8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock 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.)
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	120 °C

Dimensions

Width	12.3 mm
End cover width	2.2 mm
Length	66 mm
Height NS 35/7,5	51 mm
Height NS 35/15	58.5 mm

Connection data

Note	Connection bolts
Connection method	Bolt connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.1 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.1 mm ²
Conductor cross section flexible max.	2.5 mm ²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	14
Cable lug connection according to standard	DIN 46 234

Bolt connection terminal block - RT 3 - 3049013

Technical data

Connection data

Min. cross section for cable lug connection	0.5 mm ²
Max. cross section for cable lug connection	2.5 mm ²
Hole diameter, min.	3.2 mm
Cable lug width, max.	6 mm
Bolt diameter	3 mm
Cable lug connection according to standard	DIN 46237
Min. cross section for cable lug connection	1 mm ²
Max. cross section for cable lug connection	2.5 mm ²
Hole diameter, min.	3.2 mm
Cable lug width, max.	6 mm
Bolt diameter	3 mm
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 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
ETIM 4.0	EC000897

Bolt connection terminal block - RT 3 - 3049013

Classifications

ETIM

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 / IECEx CB Scheme / VDE Zeichengenehmigung / EAC / EAC / cULus Recognized


Ex Approvals

ATEX / IECEx / EAC Ex

Approvals submitted

Approval details

UL Recognized 		
	B	C
Nominal current I _N	30 A	30 A
Nominal voltage U _N	600 V	600 V

VDE Zeichengenehmigung 	
mm ² /AWG/kcmil	0.14-2.5
Nominal current I _N	24 A

Bolt connection terminal block - RT 3 - 3049013

Approvals

Nominal voltage UN	1000 V
--------------------	--------

cUL Recognized

	B	C
Nominal current IN	30 A	30 A
Nominal voltage UN	600 V	600 V

ABS

IECEE CB Scheme

VDE Zeichengenehmigung

mm ² /AWG/kcmil	0.14-2.5
Nominal current IN	24 A
Nominal voltage UN	1000 V

EAC

EAC

cULus Recognized

Drawings

Circuit diagram



