Bolt connection terminal block - RTO 3 - 3049518

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

- Four bridge shafts per terminal block
- Terminal point always freely accessible

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
Weight per Piece (excluding packing)	20.11 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
Number of connections	2
Nominal cross section	2.5 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Pollution degree	3

Bolt connection terminal block - RTO 3 - 3049518

Technical data

General

Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	24 A (with a 2.5 mm² conductor cross section)
Nominal current I_N	24 A
Nominal voltage U_N	1000 V
Open side panel	ja
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	1 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	2.5 mm²
Short-time current	0.3 kA
Short circuit stability result	Test passed
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

Bolt connection terminal block - RTO 3 - 3049518

Technical data

General

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	12.3 mm
End cover width	2.2 mm
Length	66 mm
Height NS 35/7,5	49.9 mm
Height NS 35/15	57.4 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 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.1 mm²
Conductor cross section flexible max.	2.5 mm²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	14
Cable lug connection according to standard	DIN 46 234
Min. cross section for cable lug connection	0.5 mm²
Max. cross section for cable lug connection	2.5 mm²
Hole diameter	3.2 mm
Width	6 mm
Bolt diameter	3 mm
Cable lug connection according to standard	DIN 46237
Min. cross section for cable lug connection	1 mm²
Max. cross section for cable lug connection	2.5 mm²
Hole diameter	3.2 mm
Width	6 mm
Bolt diameter	3 mm
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm

Bolt connection terminal block - RTO 3 - 3049518

Technical data

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
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

Bolt connection terminal block - RTO 3 - 3049518

Approvals

Ex Approvals

ATEX / IECEx / EAC Ex

Approvals submitted

Approval details

UL Recognized

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

VDE Zeichengenehmigung

mm²/AWG/kcmil	0.14-2.5
Nominal current IN	24 A
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

Bolt connection terminal block - RTO 3 - 3049518

Approvals

VDE Zeichengenehmigung

mm²/AWG/kcmil	0.14-2.5
Nominal current IN	24 A
Nominal voltage UN	1000 V

EAC

EAC

cULus Recognized

Drawings

Circuit diagram