

Bolt connection terminal block - RBO 10 - 3244614

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Bolt connection terminal block, Connection method: Bolt connection, Number of positions: 1, Cross section: 6 mm² - 150 mm², AWG: 10 - 300, Width: 41 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- Tested for railway applications



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	5 pc
Weight per Piece (excluding packing)	274.0 g
Custom tariff number	85369010
Country of origin	China

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	150 mm ²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
	Mechanical engineering
	Plant engineering
Rated surge voltage	8 kV
Degree of pollution	3

Bolt connection terminal block - RBO 10 - 3244614

Technical data

General

Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	309 A (with 150 mm ² conductor cross section)
Nominal current I _N	309 A
Nominal voltage U _N	1000 V
Open side panel	No
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	15 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	150 mm ²
Short-time current	18 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
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 Hz to f ₂ = 150 Hz
ASD level	1.857 (m/s ²) ² /Hz
Acceleration	0.8g
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

Bolt connection terminal block - RBO 10 - 3244614

Technical data

General

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))	130 °C
Static insulating material application in cold	-60 °C

Dimensions

Width	41 mm
Length	144 mm
Height NS 35/7,5	77 mm
Height NS 35/15	84.5 mm

Connection data

Note	Connection bolts
Connection method	Bolt connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	6 mm ²
Conductor cross section solid max.	150 mm ²
Conductor cross section AWG min.	10
Conductor cross section AWG max.	300
Conductor cross section flexible min.	6 mm ²
Conductor cross section flexible max.	150 mm ²
Min. AWG conductor cross section, flexible	10
Max. AWG conductor cross section, flexible	300
Cable lug connection according to standard	DIN 46 234
Min. cross section for cable lug connection	6 mm ²
Max. cross section for cable lug connection	150 mm ²
Hole diameter, min.	10.5 mm
Cable lug width, max.	30 mm
Bolt diameter	10 mm
Screw thread	M10
Tightening torque, min	10 Nm
Tightening torque max	20 Nm
Cable lug connection according to standard	DIN 46,235
Min. cross section for cable lug connection	16 mm ²
Max. cross section for cable lug connection	150 mm ²
Hole diameter, min.	10.5 mm
Cable lug width, max.	34 mm

Bolt connection terminal block - RBO 10 - 3244614

Technical data

Connection data

Bolt diameter	10 mm
Screw thread	M10
Tightening torque, min	10 Nm
Tightening torque max	20 Nm
Screw thread	M10
Tightening torque, min	10 Nm
Tightening torque max	20 Nm

Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
	DIN 46 234
	DIN 46,235
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 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

Bolt connection terminal block - RBO 10 - 3244614

Approvals

Approvals

Approvals

UL Recognized / CSA / EAC / EAC

Ex Approvals

IECEX / ATEX / EAC Ex

Approvals submitted

Approval details

UL Recognized

		B	C
mm ² /AWG/kcmil	10-350	10-350	10-350
Nominal current I _N	310 A	310 A	310 A
Nominal voltage U _N	1000 V	600 V	600 V

CSA

	B	C
mm ² /AWG/kcmil	10-350	10-350
Nominal current I _N	310 A	310 A
Nominal voltage U _N	600 V	1000 V

EAC

EAC

Drawings

Bolt connection terminal block - RBO 10 - 3244614

Circuit diagram



Dimensional drawing

