

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
Weight per Piece (excluding packing)	274.0 GRM
Custom tariff number	85369010
Country of origin	China

Technical data

General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0
Area of application	Railway industry
	Mechanical engineering
	Plant engineering
Maximum load current	309 A (with 150 mm ² conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I

Bolt connection terminal block - RBO 10 - 3244614

Technical data

General

Connection in acc. with standard	IEC 60947-7-1
Maximum load current (lower level)	309 A (with 150 mm ² conductor cross section)
Nominal current I _N (lower level)	309 A
Nominal voltage U _N	1000 V
Maximum load current (upper level)	309 A (with 150 mm ² conductor cross section)
Open side panel	nein
Number of positions	1
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	15 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	150 mm ²
Short-time current	18 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	1.857 (m/s ²) ² /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 - RBO 10 - 3244614

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))	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 in acc. with standard	IEC 60947-7-1
Connection method	Bolt connection
Conductor cross section solid min.	6 mm ²
Conductor cross section solid max.	150 mm ²
Conductor cross section AWG/kcmil min.	10
Conductor cross section AWG/kcmil max	300
Conductor cross section stranded min.	6 mm ²
Conductor cross section stranded max.	150 mm ²
Min. AWG conductor cross section, stranded	10
Max. AWG conductor cross section, stranded	300
Min. cross section for cable lug connection	6 mm ²
Max. cross section for cable lug connection	150 mm ²
Screw thread	M10
Tightening torque, min	10 Nm
Tightening torque max	20 Nm

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

Bolt connection terminal block - RBO 10 - 3244614

Classifications

eCl@ss

eCl@ss 8.0	27141120
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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 / GOST / CSA

Ex Approvals

IECEX / ATEX

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

Bolt connection terminal block - RBO 10 - 3244614

Approvals



	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

Drawings

Circuit diagram



Dimensioned drawing

