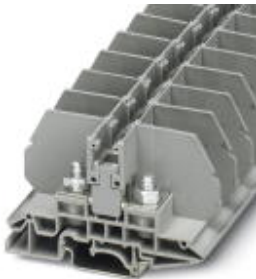


Bolt connection terminal block - RBO 6 - 3075896

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Bolt connection terminal block, Connection method: Bolt connection, Cross section: 2.5 mm² - 35 mm², AWG: 12 - 2, Width: 17 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15, NS 32

Product Features

- Compact connection with ring and fork-type cable lugs
- Mounting on standard DIN rails or directly in control boxes
- Isolator bridge bar for switchable cross connections
- Bridge shaft for potential distribution using standard screw bridges



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	40 pc
Weight per Piece (excluding packing)	37.5 g
Custom tariff number	85369010
Country of origin	India

Technical data

General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	35 mm ²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3

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Technical data

General

Overvoltage category	III
Insulating material group	I
Maximum load current	125 A (with 35 mm ² conductor cross section)
Nominal current I _N	125 A
Nominal voltage U _N	800 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 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 32/NS 35
Setpoint	10 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	35 mm ²
Short-time current	4.2 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	0,8 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

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Technical data

General

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	17 mm
End cover width	2.2 mm
Length	80.8 mm
Height NS 35/7,5	49.8 mm
Height NS 35/15	57.3 mm
Height NS 32	54.8 mm
Pitch	17.00 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 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section AWG min.	12
Conductor cross section AWG max.	2
Conductor cross section flexible min.	2.5 mm ²
Conductor cross section flexible max.	35 mm ²
Min. AWG conductor cross section, flexible	12
Max. AWG conductor cross section, flexible	2
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	35 mm ²
Hole diameter, min.	6.5 mm
Cable lug width, max.	15 mm
Bolt diameter	6 mm
Cable lug connection according to standard	DIN 46237
Min. cross section for cable lug connection	2.5 mm ²
Max. cross section for cable lug connection	6 mm ²
Hole diameter, min.	6.5 mm
Cable lug width, max.	11 mm
Bolt diameter	6 mm

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Technical data

Connection data

Screw thread	M6
Tightening torque, min	3.2 Nm
Tightening torque max	3.7 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
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

Bolt connection terminal block - RBO 6 - 3075896

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / CSA / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized		
	B	C
Nominal current IN	115 A	115 A
Nominal voltage UN	600 V	600 V

cUL Recognized			
	B	C	D
Nominal current IN	115 A	115 A	
Nominal voltage UN	600 V	600 V	

EAC

CSA		
	B	C
mm ² /AWG/kcmil	12-2	12-2
Nominal current IN	115 A	115 A
Nominal voltage UN	600 V	600 V

EAC

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Approvals



Drawings

Circuit diagram

