

# Bolt connection terminal block - RBO 6 - 3075896

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Bolt connection terminal block, Connection method: Bolt connection, Cross section: 2.5 mm<sup>2</sup> - 35 mm<sup>2</sup>, AWG: 12 - 2, Width: 17 mm, Height: 48.6 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

package_quantity	40
GTIN	4046356532853

## Technical data

### General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0

### General

Maximum load current	125 A (with 35 mm <sup>2</sup> conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I <sub>N</sub>	125 A
Nominal voltage U <sub>N</sub>	800 V
Open side panel	nein
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed

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### Technical data

#### General

<b>Power frequency withstand voltage setpoint</b>	2 kV
<b>Result of power-frequency withstand voltage test</b>	Test passed
<b>Checking the mechanical stability of terminal points (5 x conductor connection)</b>	Test passed
<b>Tight fit on carrier</b>	NS 32/NS 35
<b>Setpoint</b>	10 N
<b>Result of tight fit test</b>	Test passed
<b>Requirements, voltage drop</b>	≤ 3.2 mV
<b>Result of voltage drop test</b>	Test passed
<b>Temperature-rise test</b>	Test passed
<b>Conductor cross section short circuit testing</b>	35 mm <sup>2</sup>
<b>Short-time current</b>	4.2 kA
<b>Short circuit stability result</b>	Test passed
<b>Proof of thermal characteristics (needle flame) effective duration</b>	30 s
<b>Result of thermal test</b>	Test passed
<b>Test specification, oscillation, broadband noise</b>	DIN EN 50155 (VDE 0115-200):2008-03
<b>Test spectrum</b>	Service life test category 1, class B, body mounted
<b>Test frequency</b>	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
<b>ASD level</b>	1.857 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
<b>Acceleration</b>	0.8 g
<b>Test duration per axis</b>	5 h
<b>Test directions</b>	X-, Y- and Z-axis
<b>Oscillation, broadband noise test result</b>	Test passed
<b>Test specification, shock test</b>	DIN EN 50155 (VDE 0115-200):2008-03
<b>Shock form</b>	Half-sine
<b>Acceleration</b>	5 g
<b>Shock duration</b>	30 ms
<b>Number of shocks per direction</b>	3
<b>Test directions</b>	X-, Y- and Z-axis (pos. and neg.)
<b>Shock test result</b>	Test passed
<b>Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))</b>	130 °C
<b>Static insulating material application in cold</b>	-60 °C

#### Dimensions

<b>Width</b>	17 mm
<b>Length</b>	80.8 mm
<b>Height</b>	48.6 mm
<b>Height NS 35/7,5</b>	49.8 mm
<b>Height NS 35/15</b>	57.3 mm
<b>Height NS 32</b>	54.8 mm

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### Technical data

#### Connection data

Note	Connection bolts
Connection in acc. with standard	IEC 60947-7-1
Connection method	Bolt connection
Conductor cross section solid min.	2.5 mm <sup>2</sup>
Conductor cross section solid max.	35 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	12
Conductor cross section AWG/kcmil max	2
Conductor cross section stranded min.	2.5 mm <sup>2</sup>
Conductor cross section stranded max.	35 mm <sup>2</sup>
Min. AWG conductor cross section, stranded	12
Max. AWG conductor cross section, stranded	2
Min. cross section for cable lug connection	6 mm <sup>2</sup>
Max. cross section for cable lug connection	35 mm <sup>2</sup>
Screw thread	M6
Tightening torque, min	3.2 Nm
Tightening torque max	3.7 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
eCl@ss 8.0	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

# Bolt connection terminal block - RBO 6 - 3075896

## approvals

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UL Recognized / cUL Recognized / GOST / cULus Recognized /

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### Approval details

<b>UL Recognized</b>		
Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	115 A	115 A
mm <sup>2</sup> /AWG/kcmil		

<b>cUL Recognized</b>		
Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	115 A	115 A
mm <sup>2</sup> /AWG/kcmil		

<b>GOST</b>		
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<b>cULus Recognized</b>		
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## accessories

### Partition plate

TS-KK 3 - 2770215



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### End cover

# Bolt connection terminal block - RBO 6 - 3075896

## accessories

D-RSC 6 - 3213098



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### Cover profile

AP RSC-T - 3059139



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### Socket spanner

SHN 13 - 1209923



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### Bridge

FB 10-17 - 3075951



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### Mounting rail

NS 32 PERF 2000MM - 1201002



## Bolt connection terminal block - RBO 6 - 3075896

accessories

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NS 32 UNPERF 2000MM - 1201015



NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



NS 35/ 7,5 WH PERF 2000MM - 1204119



NS 35/ 7,5 WH UNPERF 2000MM - 1204122



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### accessories

NS 35/ 7,5 AL UNPERF 2000MM - 0801704



NS 35/ 7,5 ZN PERF 2000MM - 1206421



NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



NS 35/ 7,5 CU UNPERF 2000MM - 0801762



NS 35/ 7,5 CAP - 1206560



NS 35/15 PERF 2000MM - 1201730



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accessories

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NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 ZN PERF 2000MM - 1206599





## Bolt connection terminal block - RBO 6 - 3075896

### accessories

NS 35/15 ZN UNPERF 2000MM - 1206586



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



NS 35/15-2,3 UNPERF 2000MM - 1201798



### Terminal marking

ZB 17:UNBEDRUCKT - 0829391



### Labeled terminal marker

## Bolt connection terminal block - RBO 6 - 3075896

### accessories

ZB 17 CUS - 0829393



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### End block

CLIPFIX 35 - 3022218



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CLIPFIX 35-5 - 3022276



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E/NS 35 N - 0800886



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E/UK - 1201442



# Bolt connection terminal block - RBO 6 - 3075896

accessories

E/UK 1 - 1201413



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## Drawings

Circuit diagram



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