

## Bolt connection terminal block - RSC 6 - 3075870

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>)



Feed-through terminal block with bolt connection method, cross section: 2.5 - 35 mm<sup>2</sup>, AWG: 12 - 2, width 17 mm, color: gray

### Product Features

- Easy grouping of flange terminal blocks
- Flange terminal blocks for direct mounting in control boxes



### Key Commercial Data

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

### Technical data

#### General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	35 mm <sup>2</sup>
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	125 A (with 35 mm <sup>2</sup> conductor cross section)

## Bolt connection terminal block - RSC 6 - 3075870

### Technical data

#### General

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 35/NS 32
Setpoint	10 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	$\leq 3.2$ mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	35 mm <sup>2</sup>
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 <sup>2</sup> ) <sup>2</sup> /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
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

## Bolt connection terminal block - RSC 6 - 3075870

### Technical data

#### General

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 <sup>2</sup>
Conductor cross section solid max.	35 mm <sup>2</sup>
Conductor cross section AWG min.	12
Conductor cross section AWG max.	2
Conductor cross section flexible min.	2.5 mm <sup>2</sup>
Conductor cross section flexible max.	35 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	12
Max. AWG conductor cross section, flexible	2
Cable lug connection according to standard	DIN 46234
Min. cross section for cable lug connection	6 mm <sup>2</sup>
Max. cross section for cable lug connection	35 mm <sup>2</sup>
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 <sup>2</sup>
Max. cross section for cable lug connection	6 mm <sup>2</sup>
Hole diameter, min.	6.5 mm
Cable lug width, max.	11 mm
Bolt diameter	6 mm
Screw thread	M6
Tightening torque, min	3.2 Nm
Tightening torque max	3.7 Nm

# Bolt connection terminal block - RSC 6 - 3075870

## Technical data

### Standards and Regulations

Connection in acc. with standard	CUL
	IEC 60947-7-1
	DIN 46234
	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 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 / cUL Recognized / EAC / CSA / cULus Recognized

---

# Bolt connection terminal block - RSC 6 - 3075870

## Approvals

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 <sup>2</sup> /AWG/kcmil	12-2	12-2
Nominal current IN	115 A	115 A
Nominal voltage UN	600 V	600 V

cULus Recognized

## Accessories

Accessories

Cover profile

## Bolt connection terminal block - RSC 6 - 3075870

### Accessories

Cover profile - AP RSC-T - 3059139



Cover profile, for covering terminal strips, directly snapped onto RBO... and RSC... test disconnect terminal blocks.  
Length supplied: 1 m

---

### DIN rail

DIN rail perforated - NS 32 PERF 2000MM - 1201002



G-profile DIN rail, material: Steel, perforated, height 15 mm, width 32 mm, length 2 m

---

DIN rail, unperforated - NS 32 UNPERF 2000MM - 1201015



G-profile DIN rail, material: Steel, unperforated, height 15 mm, width 32 mm, length 2 m

---

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

---

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

---

## Bolt connection terminal block - RSC 6 - 3075870

### Accessories

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



DIN rail 35 mm (NS 35)

---

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



DIN rail 35 mm (NS 35)

---

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



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

---

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



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

---

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



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

---

## Bolt connection terminal block - RSC 6 - 3075870

### Accessories

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



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

---

End cap - NS 35/ 7,5 CAP - 1206560



DIN rail end piece, for DIN rail NS 35/7.5

---

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

---

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

---

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail 35 mm (NS 35)

---



## Bolt connection terminal block - RSC 6 - 3075870

### Accessories

DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail 35 mm (NS 35)

---

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

---

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

---

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

---

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

---

## Bolt connection terminal block - RSC 6 - 3075870

### Accessories

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

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



DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

### End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

## Bolt connection terminal block - RSC 6 - 3075870

### Accessories

End clamp - E/UK - 1201442



End clamp, Width: 9.5 mm, Height: 35.3 mm, Length: 50.5 mm, Color: gray

---

End clamp - E/UK 1 - 1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

---

End cover

End cover - D-RSC 6 - 3213098



End cover, Length: 80.9 mm, Width: 2.2 mm, Height: 39.7 mm, Color: gray

---

Labeled terminal marker

Zack marker strip - ZB 17 CUS - 0829393



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 17 mm, Lettering field: 17 x 10.5 mm

---

Screw bridge

## Bolt connection terminal block - RSC 6 - 3075870

### Accessories

Fixed bridge - FB 10-17 ISO - 3213085



Fixed bridge, Pitch: 17 mm, Number of positions: 10, Color: silver

---

### Terminal marking

Zack marker strip - ZB 17:UNBEDRUCKT - 0829391



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 17 mm, Lettering field: 17 x 10.5 mm

---

### Drawings

Circuit diagram

