

# RSC 4 SP/SP E - Bolt connection terminal block



3000891

<https://www.phoenixcontact.com/in/products/3000891>

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Bolt connection terminal block, with reduced-size connection screw, nom. voltage: 800 V, nominal current: 32 A, number of connections: 2, connection method: Bolt connection, 1 level, Rated cross section: 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

## Commercial Data

Item number	3000891
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	BE1
Product Key	BE1511
GTIN	4046356856867
Weight per Piece (including packing)	99.99 g
Weight per Piece (excluding packing)	99.99 g
Country of origin	IN

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## Technical Data

### Product properties

Product type	Bolt connection terminal block
Pitch	9 mm
Number of connections	2
Number of rows	1
Potentials	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
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### Connection data

Number of connections per level	2
Nominal cross section	4 mm <sup>2</sup>

#### 1 level

Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Connection in acc. with standard	IEC 60947-7-1
Nominal current	32 A
Maximum load current	32 A
Nominal voltage	800 V
Note	Checked at 1100 V
Nominal cross section	4 mm <sup>2</sup>

#### Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	0.1 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section range AWG	26 ... 10 (converted acc. to IEC)
Hole diameter	4.3 mm
Width	8 mm
Bolt diameter	4 mm
Screw thread	M4
Tightening torque	1.2 ... 1.4 Nm

Connection in acc. with standard	DIN 46237:1970-07
Cross section	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross section range AWG	26 ... 10 (converted acc. to IEC)
Hole diameter	4.3 mm
Width	8 mm
Bolt diameter	4 mm

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Screw thread	M4
Tightening torque	1.2 ... 1.4 Nm

## Dimensions

Width	9 mm
End cover width	2.2 mm
Height NS 35/15	54.6 mm
Height NS 35/7,5	47.1 mm
Length	53.3 mm
Pitch	9 mm

## Material specifications

Color	gray
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C

## Electrical tests

### Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq 45$ K
Result	Test passed
Short-time withstand current 4 mm <sup>2</sup>	0.48 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
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## Mechanical tests

### Mechanical strength

Result	Test passed
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### Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
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Test force setpoint	1 N
Result	Test passed

## Environmental and real-life conditions

### Needle-flame test

Time of exposure	30 s
Result	Test passed

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$1.857 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

### Ambient conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
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## Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32

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## Drawings

### Circuit diagram




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## Approvals

 <b>cUL Recognized</b> Approval ID: FILE E 60425				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
Use group B				
	600 V	30 A	-	-
Use group C				
	600 V	30 A	-	-

 <b>UL Recognized</b> Approval ID: FILE E 60425				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
Use group B				
	600 V	30 A	-	-
Use group C				
	600 V	30 A	-	-

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## Classifications

### ECLASS

ECLASS-11.0

27141120

### ETIM

ETIM 7.0

EC000897

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## Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values




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## Accessories

 Note: Applying some accessories below might limit this product.


### FB 10-9 - Fixed bridge

3059113

<https://www.phoenixcontact.com/in/products/3059113>



Fixed bridge, pitch: 9 mm, number of positions: 10, color: silver

 Max. current carrying capacity: 41 A

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### FB 10-9 ISO - Fixed bridge

3059650

<https://www.phoenixcontact.com/in/products/3059650>



Fixed bridge, pitch: 9 mm, number of positions: 10, color: silver

 Max. current carrying capacity: 41 A

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## TS-KK 3 - Separating plate

2770215

<https://www.phoenixcontact.com/in/products/2770215>



Separating plate, length: 14 mm, width: 0.5 mm, height: 16 mm, color: gray

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## SZK PH2 VDE - Screwdriver

1205163

<https://www.phoenixcontact.com/in/products/1205163>



Screwdriver, PH crosshead, VDE insulated, size: PH 2 x 100 mm, 2-component grip, with non-slip grip

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<https://www.phoenixcontact.com/in/products/3000891>

## AP RSC - Cover profile

3058017

<https://www.phoenixcontact.com/in/products/3058017>



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

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## D-RSC 5 E - End cover

3059618

<https://www.phoenixcontact.com/in/products/3059618>



End cover, length: 53.3 mm, width: 2.2 mm, height: 37 mm, color: dark gray

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<https://www.phoenixcontact.com/in/products/3000891>



## SZS 1,0X6,5 VDE - Screwdriver

1205079

<https://www.phoenixcontact.com/in/products/1205079>



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 6.5 x 150 mm, 2-component grip, with non-slip grip

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## CARRIER 35-13 KIT - Short circuit kit for current transformers

3215067

<https://www.phoenixcontact.com/in/products/3215067>



Short-circuit kit for current transformer. Use with DIN rail mounted RBO/RSC 5 feed-through terminals

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<https://www.phoenixcontact.com/in/products/3000891>

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

0801733

<https://www.phoenixcontact.com/in/products/0801733>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

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

0801681

<https://www.phoenixcontact.com/in/products/0801681>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

# RSC 4 SP/SP E - Bolt connection terminal block

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<https://www.phoenixcontact.com/in/products/3000891>



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

1204119

<https://www.phoenixcontact.com/in/products/1204119>



DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 25 (50 m)

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## NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204122

<https://www.phoenixcontact.com/in/products/1204122>



DIN rail, unperforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

# RSC 4 SP/SP E - Bolt connection terminal block

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<https://www.phoenixcontact.com/in/products/3000891>



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

0801704

<https://www.phoenixcontact.com/in/products/0801704>



DIN rail, unperforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver, Pack of 25 (50 m)

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

1206421

<https://www.phoenixcontact.com/in/products/1206421>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

# RSC 4 SP/SP E - Bolt connection terminal block

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<https://www.phoenixcontact.com/in/products/3000891>



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

1206434

<https://www.phoenixcontact.com/in/products/1206434>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

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## NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

<https://www.phoenixcontact.com/in/products/0801762>



DIN rail, unperforated, acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)



# RSC 4 SP/SP E - Bolt connection terminal block

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<https://www.phoenixcontact.com/in/products/3000891>



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

1206560

<https://www.phoenixcontact.com/in/products/1206560>

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



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

1201730

<https://www.phoenixcontact.com/in/products/1201730>



DIN rail perforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

# RSC 4 SP/SP E - Bolt connection terminal block

3000891

<https://www.phoenixcontact.com/in/products/3000891>



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

1201714

<https://www.phoenixcontact.com/in/products/1201714>



DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

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

0806602

<https://www.phoenixcontact.com/in/products/0806602>



DIN rail perforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: white, Pack of 25 (50 m)

# RSC 4 SP/SP E - Bolt connection terminal block

3000891

<https://www.phoenixcontact.com/in/products/3000891>



## NS 35/15 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204135

<https://www.phoenixcontact.com/in/products/1204135>



DIN rail, unperforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

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

1201756

<https://www.phoenixcontact.com/in/products/1201756>



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

# RSC 4 SP/SP E - Bolt connection terminal block

3000891

<https://www.phoenixcontact.com/in/products/3000891>

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

1206599

<https://www.phoenixcontact.com/in/products/1206599>



DIN rail perforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

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

1206586

<https://www.phoenixcontact.com/in/products/1206586>



DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

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## NS 35/15 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201895

<https://www.phoenixcontact.com/in/products/1201895>



DIN rail, unperforated, similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

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## NS 35/15 CAP - End cap

1206573

<https://www.phoenixcontact.com/in/products/1206573>

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



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## NS 35/15-2,3 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201798

<https://www.phoenixcontact.com/in/products/1201798>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver, Pack of 10 (20 m)

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## ZB 9:UNBEDRUCKT - Zack marker strip

0829127

<https://www.phoenixcontact.com/in/products/0829127>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 9 mm, lettering field size: 9 x 10.5 mm, Number of individual labels: 10

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## ZB 9 CUS - Zack marker strip

0829128

<https://www.phoenixcontact.com/in/products/0829128>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 9 mm, lettering field size: 9 x 10.5 mm, Number of individual labels: 10

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## ZBF 9:UNBEDRUCKT - Zack Marker strip, flat

0829129

<https://www.phoenixcontact.com/in/products/0829129>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 9 mm, lettering field size: 9 x 5.2 mm, Number of individual labels: 10

# RSC 4 SP/SP E - Bolt connection terminal block



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## ZBF 9 CUS - Zack Marker strip, flat

0829130

<https://www.phoenixcontact.com/in/products/0829130>



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 9 mm, lettering field size: 9 x 5.2 mm, Number of individual labels: 10

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## CLIPFIX 35 - End clamp

3022218

<https://www.phoenixcontact.com/in/products/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



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<https://www.phoenixcontact.com/in/products/3000891>

## CLIPFIX 35-5 - End clamp

3022276

<https://www.phoenixcontact.com/in/products/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

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## E/NS 35 N - End clamp

0800886

<https://www.phoenixcontact.com/in/products/0800886>



End clamp, width: 9.5 mm, color: gray

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## E/UK - End clamp

1201442

<https://www.phoenixcontact.com/in/products/1201442>

End clamp, material: PA, color: gray, Mounting on a DIN rail NS 32 or NS 35



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## E/UK 1 - End clamp

1201413

<https://www.phoenixcontact.com/in/products/1201413>

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



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PHOENIX CONTACT (I) Pvt. Ltd.  
A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420  
[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)