

RSC 4 E - Bolt connection terminal block



3059511

<https://www.phoenixcontact.com/in/products/3059511>

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Bolt connection terminal block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 2, connection method: Bolt connection, 1 level, Rated cross section: 4 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: dark gray

Commercial Data

| | |
|--------------------------------------|---------------|
| Item number | 3059511 |
| Packing unit | 50 pc |
| Minimum order quantity | 1 pc |
| Sales Key | BE1 |
| Product Key | BE1511 |
| GTIN | 4046356500807 |
| 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 |
|---------------------|------|

Connection data

| | |
|---------------------------------|-------------------|
| Number of connections per level | 2 |
| Nominal cross section | 4 mm ² |

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 ² |

Cable lug connection DIN 46234:1980-03

| | |
|----------------------------------|---|
| Connection in acc. with standard | DIN 46234:1980-03 |
| Cross section | 0.5 mm ² ... 6 mm ² |
| 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 | 1 mm ² ... 2.5 mm ² |
| 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 |
| Identification color of ring cable lugs : red | 1 mm ² |
| Identification color of ring cable lugs : blue | 2.5 mm ² |

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 | dark 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

| | |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

Temperature-rise test

| | |
|--|--------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 4 mm ² | 0.48 kA |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|-----------------------|-------------|
| Test voltage setpoint | 2 kV |
| Result | Test passed |

Mechanical properties

General

| | |
|-------------------------|-------------------|
| Terminal block mounting | 1.2 Nm ... 1.4 Nm |
|-------------------------|-------------------|

Mechanical data

| | |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

Mechanical tests

Mechanical strength

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| | |
|---------------------------|-------------|
| Result | Test passed |
| Attachment on the carrier | |
| DIN rail/fixing support | NS 32/NS 35 |
| 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 | 0.02g ² /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 |
|----------------------------------|---------------|

Mounting

| | |
|---------------|-----------------------|
| Mounting type | NS 35/7,5 NS 35/15 |
|---------------|-----------------------|

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| | |
|-------------------------|-------------------|
| | NS 32 |
| Terminal block mounting | 1.2 Nm ... 1.4 Nm |

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Drawings

Circuit diagram




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Approvals

|  cUL Recognized Approval ID: FILE E 60425 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| Use group B | | | | |
| | 600 V | 30 A | - | - |
| Use group C | | | | |
| | 600 V | 30 A | - | - |

|  UL Recognized Approval ID: FILE E 60425 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| Use group B | | | | |
| | 600 V | 30 A | - | - |
| Use group C | | | | |
| | 600 V | 30 A | - | - |

|  IECEE CB Scheme Approval ID: DE1-66168 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| | 800 V | 32 A | - | - 4 |

|  VDE Zeichengenehmigung Approval ID: 40030587 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| | 800 V | 32 A | - | - 4 |

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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


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

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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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

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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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

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/3059511>

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)

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 E - Bolt connection terminal block

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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)

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 E - Bolt connection terminal block

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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)

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 E - Bolt connection terminal block

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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)

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 E - Bolt connection terminal block

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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



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)

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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)

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 E - Bolt connection terminal block

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<https://www.phoenixcontact.com/in/products/3059511>



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)

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 E - Bolt connection terminal block

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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)

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)

RSC 4 E - Bolt connection terminal block

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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)

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)

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

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

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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

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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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

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



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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