

RSC 6-F E - Bolt connection terminal block



3075922

<https://www.phoenixcontact.com/in/products/3075922>

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Bolt connection terminal block, nom. voltage: 800 V, nominal current: 125 A, number of connections: 2, connection method: Bolt connection, 1 level, Rated cross section: 35 mm², mounting type: direct screw connection, color: dark gray

Commercial Data

Item number	3075922
Packing unit	50 pc
Minimum order quantity	50 pc
Sales Key	BE1
Product Key	BE1515
GTIN	4046356535885
Weight per Piece (including packing)	99.99 g
Weight per Piece (excluding packing)	99.99 g
Customs tariff number	85369010
Country of origin	IN

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Technical Data

Product properties

Product type	Bolt connection terminal block
Pitch	17 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
Maximum power dissipation for nominal condition	1.02 W

Connection data

Number of connections per level	2
Nominal cross section	35 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	125 A
Maximum load current	125 A (with 35 mm ² conductor cross section)
Nominal voltage	800 V
Nominal cross section	35 mm ²

Cable lug connection DIN 46234:1980-03

Connection in acc. with standard	DIN 46234:1980-03
Cross section	6 mm ² ... 35 mm ²
Cross section range AWG	10 ... 2 (converted acc. to IEC)
Hole diameter	6.5 mm
Width	15 mm
Bolt diameter	6 mm
Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Connection in acc. with standard	DIN 46237:1970-07
Cross section	2.5 mm ² ... 6 mm ²
Cross section range AWG	14 ... 10 (converted acc. to IEC)
Hole diameter	6.5 mm
Width	11 mm
Bolt diameter	6 mm

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Screw thread	M6
Tightening torque	3.2 ... 3.7 Nm
Identification color of ring cable lugs : blue	2.5 mm ²
Identification color of ring cable lugs : yellow	6 mm ²

Dimensions

Width	17 mm
End cover width	2.2 mm
Height	39.7 mm
Length	80.8 mm
Hole diameter	5.1 mm
Pitch	17 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

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 35 mm ²	4.2 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

Test force setpoint	10 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):2008-03
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):2008-03
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	direct screw connection
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Drawings

Circuit diagram




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Approvals

 CSA Approval ID: 13631				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B				
	600 V	115 A	12 - 2	-
Use group C				
	600 V	115 A	12 - 2	-

 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	115 A	-	-
Use group C				
	600 V	115 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	115 A	-	-
Use group C				
	600 V	115 A	-	-

 EAC Approval ID: RU C-DE.A*30.B.01742				
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Classifications

ECLASS

ECLASS-11.0

27141120

ETIM

ETIM 8.0

EC000897

UNSPSC

UNSPSC 21.0

39121400

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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 10-17 - Fixed bridge

3075951

<https://www.phoenixcontact.com/in/products/3075951>



Fixed bridge, pitch: 17 mm, number of positions: 10, color: silver

 Max. current carrying capacity: 101 A

FB 10-17 ISO - Fixed bridge

3213085

<https://www.phoenixcontact.com/in/products/3213085>



Fixed bridge, pitch: 17 mm, number of positions: 10, color: silver

 Max. current carrying capacity: 24 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

D-RSC 6-F E - End cover

3214026

<https://www.phoenixcontact.com/in/products/3214026>



End cover, length: 80.9 mm, width: 2.2 mm, height: 39.7 mm, color: dark gray

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AP RSC-T - Cover profile

3059139

<https://www.phoenixcontact.com/in/products/3059139>



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

SF-PZSL 2-100 VDE - Screwdriver

1212557

<https://www.phoenixcontact.com/in/products/1212557>



Screwdriver, positive/negative PZ/bladed, VDE insulated, size: PZ 2 x 100, 2-component grip, with non-slip grip

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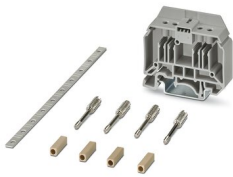
<https://www.phoenixcontact.com/in/products/3075922>

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

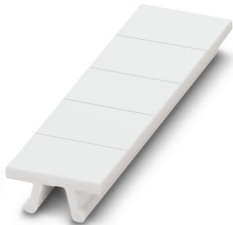


ZB 17:UNBEDRUCKT - Zack marker strip

0829391

<https://www.phoenixcontact.com/in/products/0829391>

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 17 mm, lettering field size: 17 x 10.5 mm, Number of individual labels: 5



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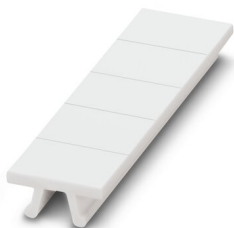
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ZB 17 CUS - Zack marker strip

0829393

<https://www.phoenixcontact.com/in/products/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 size: 17 x 10.5 mm, Number of individual labels: 50

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