

# RBO 5-F/4 - Bolt connection terminal block



3058237

<https://www.phoenixcontact.com/us/products/3058237>

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Feed-through terminal block with bolt connection method, cross section: 0.1 - 6 mm<sup>2</sup>, AWG: 26 - 10, width 13 mm, color: gray

## Your advantages

- Direct mounting in control boxes
- Compact connection with ring and fork-type cable lugs
- Bridge shaft for potential distribution using standard screw bridges
- Isolator bridge bar for switchable cross connections

## Commercial data

Item number	3058237
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BE44
Product key	BE4415
Catalog page	Page 387 (C-1-2019)
GTIN	4046356534765
Weight per piece (including packing)	117.1 g
Weight per piece (excluding packing)	117 g
Customs tariff number	85369010
Country of origin	IN

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## Technical data

### Product properties

Product type	Bolt connection terminal block
Pitch	13 mm
Number of connections	8
Number of rows	1
Potentials	4

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.82 W

### Connection data

Number of connections per level	8
Nominal cross section	10 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	57 A
Maximum load current	57 A (with 10 mm <sup>2</sup> conductor cross section)
Nominal voltage	800 V
Nominal cross section	10 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> ... 10 mm <sup>2</sup>
Cross section range AWG	26 ... 8 (converted acc. to IEC)
Hole diameter	5.3 mm
Width	10 mm
Bolt diameter	5 mm
Screw thread	M5
Tightening torque	2 ... 2.2 Nm
Connection in acc. with standard	DIN 46237:1970-07
Cross section	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section range AWG	20 ... 10 (converted acc. to IEC)
Hole diameter	5.3 mm
Width	10 mm
Bolt diameter	5 mm

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Tightening torque	2 ... 2.2 Nm
Identification color of ring cable lugs : red	1 mm <sup>2</sup>
Identification color of ring cable lugs : blue	2.5 mm <sup>2</sup>
Identification color of ring cable lugs : yellow	6 mm <sup>2</sup>

## Dimensions

Width	69.7 mm
Height	53.3 mm
Depth	37 mm
Hole diameter	5.2 mm
Pitch	13 mm

## Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

## Mechanical properties

### Mechanical data

Open side panel	No
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

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## Standards and regulations

Connection in acc. with standard

IEC 60947-7-1

## Mounting

Mounting type

direct screw connection

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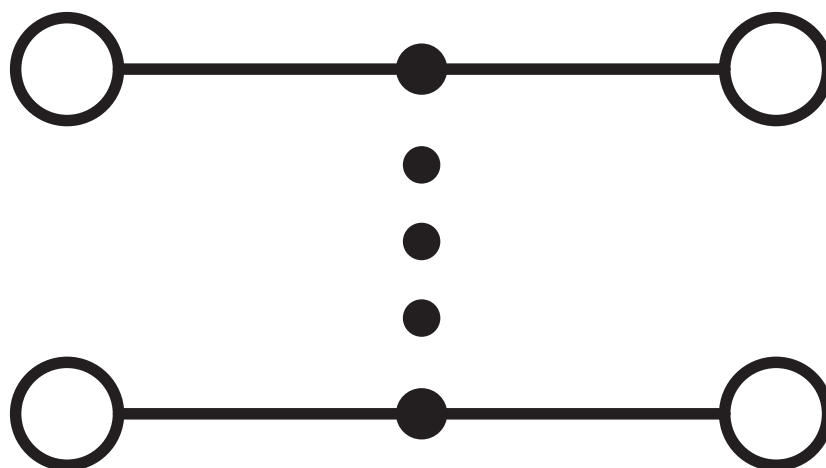


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3058237>

 <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	45 A	-	-
Use group C	600 V	45 A	-	-

 <b>UL Recognized</b> Approval ID: FILE E 60425				
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 <b>EAC</b> Approval ID: RU C-DE.BL08.B.00540	
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<b>cULus Recognized</b>	
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## Classifications

### ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

### ETIM

ETIM 9.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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## Accessories

 Note: Applying some accessories below might limit this product.


### FB 10-13 - Fixed bridge

3059126

<https://www.phoenixcontact.com/us/products/3059126>



Fixed bridge, pitch: 13 mm, number of positions: 10, color: silver

 Max. current carrying capacity: 57 A

with 41 A bridging between non-adjacent term. blocks

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### FB 10-13 ISO - Fixed bridge

3059663

<https://www.phoenixcontact.com/us/products/3059663>



Fixed bridge, pitch: 13 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/us/products/2770215>



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

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## AP RSC - Cover profile

3058017

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



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

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## ZB 13:UNBEDRUCKT - Zack marker strip

0829131

<https://www.phoenixcontact.com/us/products/0829131>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 13 mm, lettering field size: 13 x 10.5 mm, Number of individual labels: 5

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## ZB 13 CUS - Zack marker strip

0829132

<https://www.phoenixcontact.com/us/products/0829132>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 13 mm, lettering field size: 13 x 10.5 mm, Number of individual labels: 5

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## ZBF 13:UNBEDRUCKT - Zack Marker strip, flat

0829133

<https://www.phoenixcontact.com/us/products/0829133>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 13 mm, lettering field size: 13 x 5.2 mm, Number of individual labels: 5

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## ZBF 13 CUS - Zack Marker strip, flat

0829134

<https://www.phoenixcontact.com/us/products/0829134>



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: 13 mm, lettering field size: 13 x 5.2 mm, Number of individual labels: 5

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## SHN 8 - Tool

1209868

<https://www.phoenixcontact.com/us/products/1209868>



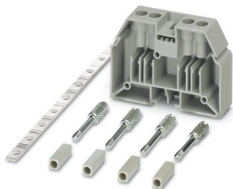
Socket wrench, wrench size 8 mm

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

3215070

<https://www.phoenixcontact.com/us/products/3215070>



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

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