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Bolt connection terminal block - RBO 5-F/12 - 3059252

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Feed-through terminal block with bolt connection method, cross section: 0.1 - 6 mm², 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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 534871
GTIN	4046356534871
Weight per Piece (excluding packing)	260.000 g
Custom tariff number	85369010
Country of origin	India

Technical data

General

Number of levels	1
Number of connections	24
Potentials	12
Nominal cross section	10 mm²
Color	gray
Insulating material	PA

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Technical data

General

Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum power dissipation for nominal condition	1.82 W
Maximum load current	57 A (with 10 mm² conductor cross section)
Nominal current I_N	57 A
Nominal voltage U_N	800 V
Open side panel	No
Ambient temperature (operation)	-60 °C ... 85 °C
Ambient temperature (storage/transport)	-25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C)
Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
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
Static insulating material application in cold	-60 °C
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
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

Dimensions

Width	173.7 mm
Length	53.3 mm
Height	37 mm
Pitch	13 mm

Connection data

Connection	1 level
Connection method	Bolt connection
Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Connection in acc. with standard	IEC 60947-7-1

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Connection data

Cable lug connection according to standard	DIN 46234:1980-03
Min. cross section for cable lug connection	0.1 mm²
Max. cross section for cable lug connection	10 mm²
AWG min	26
AWG max	8
Hole diameter, min.	5.3 mm
Cable lug width, max.	10 mm
Bolt diameter	5 mm
Screw thread	M5
Tightening torque, min	2 Nm
Tightening torque max	2.2 Nm
Cable lug connection according to standard	DIN 46237:1970-07
Min. cross section for cable lug connection	0.5 mm²
Max. cross section for cable lug connection	6 mm²
AWG min	20
AWG max	10
Hole diameter, min.	5.3 mm
Cable lug width, max.	10 mm
Bolt diameter	5 mm
Tightening torque, min	2 Nm
Tightening torque max	2.2 Nm

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0

Environmental Product Compliance

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

Classifications

eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100

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Classifications

eCl@ss

eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897
ETIM 6.0	EC000897
ETIM 7.0	EC000897

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

Approvals

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UL Recognized / EAC / EAC / EAC

Ex Approvals

Approval details

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Approvals

UL Recognized	![UL]	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
		B	C
Nominal voltage UN		600 V	600 V
Nominal current IN		45 A	45 A

EAC	EAC	EAC-Zulassung

EAC	EAC	RU C-DE.A*30.B.01742

EAC	EAC	RU C-DE.BL08.B.00540

Accessories

Accessories

Cover profile

Cover profile - AP RSC - 3058017

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

Labeled terminal marker

Zack marker strip - ZB 13 CUS - 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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Accessories

Zack Marker strip, flat - ZBF 13 CUS - 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

Partition plate

Separating plate - TS-KK 3 - 2770215

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

Screw bridge

Fixed bridge - FB 10-13 - 3059126

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

Fixed bridge - FB 10-13 ISO - 3059663

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

Short-circuit connector

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Accessories

Short circuit kit for current transformers - CARRIER F-13 KIT - 3215070

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

Socket spanner

Tool - SHN 8 - 1209868

Socket wrench, wrench size 8 mm

Terminal marking

Zack marker strip - ZB 13:UNBEDRUCKT - 0829131

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, 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

Zack Marker strip, flat - ZBF 13:UNBEDRUCKT - 0829133

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, 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