

Bolt connection terminal block - RBO 5-F - 3058062

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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

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

RoHS

Key Commercial Data

Packing unit	50 pc
GTIN	 4 046356 500357
GTIN	4046356500357

Technical data

General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	10 mm ²
Color	gray
Insulating material	PA
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

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Technical data

General

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)
	70 %
Additional text	For a short time, not exceeding 24 h, -60 to +70 °C
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Maximum load current	57 A (with 10 mm ² conductor cross section)
Nominal current I _N	57 A
Nominal voltage U _N	800 V
Open side panel	Yes
Shock protection test specification	IEC 60529:2001-02
Back of the hand protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	10 mm ²
Short-time current	1.2 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, body mounted
Test frequency	f ₁ = 5 Hz to f ₂ = 150 Hz
ASD level	1.857 (m/s ²) ² /Hz
Acceleration	0,8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

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Technical data

General

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
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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	13 mm
End cover width	10 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
Cable lug connection according to standard	DIN 46234:1980-03
Min. cross section for cable lug connection	0.1 mm ²
Max. cross section for cable lug connection	10 mm ²
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 mm ²
Max. cross section for cable lug connection	6 mm ²
AWG min	20
AWG max	10

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Technical data

Connection data

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

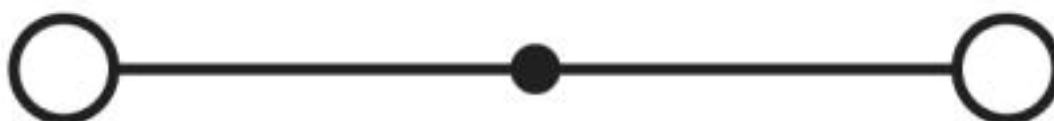
Connection in acc. with standard	CUL
	IEC 60947-7-1
Flammability rating according to UL 94	V0

Environmental Product Compliance

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

Drawings

Circuit diagram



Classifications

eCl@ss

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

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Classifications

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

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

UL Recognized  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

cUL Recognized  http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425		
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EAC  RU C- DE.BL08.B.00540		
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Approvals

cULus Recognized



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

End cover

End cover - D-RSC 5-F - 3059647



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

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

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

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Accessories

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

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

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Accessories

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

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