Bolt connection terminal block - RTO 8 - 3049343

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Bolt connection terminal block, nom. voltage: 1000 V, nominal current: 125 A, connection method: Bolt connection, length: 84 mm, width: 20.3 mm, color: gray, mounting: NS 35/7,5, NS 35/15

Your advantages

- Four bridge shafts per terminal block
- Terminal point always freely accessible

Key Commercial Data

Packing unit	25 pc
GTIN	4 046356 140058
GTIN	4046356140058

Technical data

General

Note	Note: the BE-RT... path extension is to be used for non-insulated cable lugs (see accessories).
Number of positions	1
Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	35 mm²
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

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Technical data

General

Maximum power dissipation for nominal condition	4.06 W
Designation	Level 1 above 1 below 1
Maximum load current	125 A (with 35 mm² conductor cross section)
Nominal current I_N	125 A
Nominal voltage U_N	1000 V
Open side panel	Yes
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	2.2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	10 N
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	35 mm²
Short-time current	4.2 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	0.02 g²/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.)
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

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General

Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
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	20.3 mm
End cover width	2.2 mm
Length	84 mm
Height NS 35/7,5	62.2 mm
Height NS 35/15	69.7 mm

Connection data

Note	Connection bolts
Connection	1 level
Connection method	Bolt connection
Screw thread	M8
Tightening torque, min	6 Nm
Tightening torque max	10 Nm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section flexible min.	2.5 mm²
Conductor cross section flexible max.	35 mm²
Min. AWG conductor cross section, flexible	14
Max. AWG conductor cross section, flexible	2
Cable lug connection according to standard	DIN 46234
Min. cross section for cable lug connection	2.5 mm²
Max. cross section for cable lug connection	35 mm²
Hole diameter, min.	8.4 mm
Cable lug width, max.	16 mm
Bolt diameter	8 mm
Cable lug connection according to standard	DIN 46235
Hole diameter, min.	8.4 mm

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Connection data

Cable lug width, max.	14 mm
Bolt diameter	8 mm
Cable lug connection according to standard	DIN 46237
Min. cross section for cable lug connection	2.5 mm²
Max. cross section for cable lug connection	6 mm²
Hole diameter, min.	8.4 mm
Cable lug width, max.	14 mm
Bolt diameter	8 mm

Standards and Regulations

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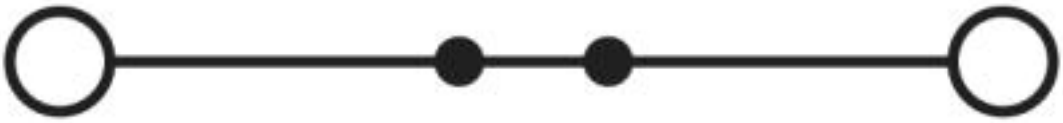
Environmental Product Compliance

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

Drawings

Circuit diagram



Approvals

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ABS / UL Recognized / cUL Recognized / IECEE CB Scheme / VDE Zeichengenehmigung / EAC / EAC / cULus Recognized

Ex Approvals

IECEx / ATEX / EAC Ex

Approval details

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Approvals

ABS	http://www.eagle.org/eagleExternalPortalWEB/	15-GD1354709-PDA

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	115 A	115 A

cUL 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	115 A	115 A

IECEE CB Scheme — http://www.iecee.org/ — DE1-50525

VDE Zeichengenehmigung — http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx — 40022553

Nominal voltage UN	1000 V
Nominal current IN	125 A
mm²/AWG/kcmil	2.5-35

EAC — EAC-Zulassung

EAC — RU C-DE.A*30.B.01742

cULus Recognized

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