

Bolt connection terminal block - RT 8 - 3049042

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Feed-through terminal block with bolt connection, cross section: 2.5 - 35 mm², AWG: 14 - 2, width 20.2 mm, color: Gray

Product Features

- ✓ The special clamping nuts can be actuated with a normal screwdriver
- ✓ Tested for railway applications
- ✓ Easy bridging and potential distribution using the patented plug-in bridges from the CLIPLINE complete system
- ✓ Quick and easy connection thanks to hinged cover flaps which hold the clamping nuts captive. When the flaps are open, the connection bolt is freely accessible and the cable lugs can be hooked in; after closing and engaging the flaps
- ✓ The screws are secured against loosening by captive spring-loaded spacers
- ✓ Large-surface labeling options in the terminal center and above the terminal points
- ✓ The use of the switching lock effectively prevents unintentional switching
- ✓ The hinged cover cover the live metal parts including the insulated cable lugs in the clamping area so that they are touch proof
- ✓ Testing with the standardized test adapters and test plugs of the CLIPLINE complete system

Key commercial data

package_quantity	25
GTIN	4046356140027

Technical data

General

Note	Note: the BE-RT... path extension is to be used for non-insulated cable lugs (see accessories).
Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0
Area of application	Railway industry
Area of application	Mechanical engineering
Area of application	Plant engineering
Area of application	Process industry

General

Maximum load current	125 A (with 35 mm ² conductor cross section)
Rated surge voltage	8 kV

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Technical data

General

Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I_N	125 A
Nominal voltage U_N	1000 V (Rated voltage for open disconnect point 500 V)
Open side panel	ja
Number of positions	1
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Tight fit on carrier	NS 35
Setpoint	10 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	35 mm ²
Short-time current	4.2 kA
Short circuit stability result	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	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 g ² /Hz
Acceleration	0.8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Oscillation, broadband noise test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3

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General

Test directions	X-, Y- and Z-axis (pos. and neg.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	120 °C

Dimensions

Width	20.3 mm
Length	84 mm
Height NS 35/7,5	63.8 mm
Height NS 35/15	71.3 mm

Connection data

Note	Connection bolts
Conductor cross section solid min.	2.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section AWG/kcmil min.	14
Conductor cross section AWG/kcmil max	2
Conductor cross section stranded min.	2.5 mm ²
Conductor cross section stranded max.	35 mm ²
Min. AWG conductor cross section, stranded	14
Max. AWG conductor cross section, stranded	2
Min. cross section for cable lug connection	2.5 mm ²
Max. cross section for cable lug connection	35 mm ²
Connection method	Bolt connection
Screw thread	M8
Tightening torque, min	4.5 Nm
Tightening torque max	5 Nm

classifications

eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	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

approvals

ATEX / IECEx / UL Recognized / VDE Zeichengenehmigung / cUL Recognized / ABS / IECEE CB Scheme / UL Recognized / VDE Zeichengenehmigung / cULus Recognized /

Approval details

ATEX 	
Nominal voltage UN	690 V
Nominal current IN	125 A
mm²/AWG/kcmil	2.5-35

IECEx	
Nominal voltage UN	690 V
Nominal current IN	125 A
mm²/AWG/kcmil	2.5-35

UL Recognized 		
Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	115 A	115 A
mm²/AWG/kcmil		

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

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approvals

cUL Recognized 		
Usegroups	B	C
Nominal voltage UN	600 V	600 V
Nominal current IN	115 A	115 A
mm ² /AWG/kcmil		

ABS

IECEE CB Scheme 

UL Recognized 			
Usegroups	B	C	D
Nominal voltage UN	600 V	600 V	300 V
Nominal current IN	115 A	115 A	10 A
mm ² /AWG/kcmil			

	
Nominal voltage UN	1000 V
Nominal current IN	125 A
mm ² /AWG/kcmil	2.5-35

cULus Recognized 
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accessories

End cover

D-RT 8 - 3049194



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accessories

BE-RT 8 - 3049916



Screwdriver tools

SZS 1,0X4,0 VDE - 1205066



Partition plate

TPN-UK - 3003062



Bridge

FBS 2-10 - 3005947



Mounting rail

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accessories

NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



NS 35/ 7,5 WH PERF 2000MM - 1204119



NS 35/ 7,5 WH UNPERF 2000MM - 1204122



NS 35/ 7,5 AL UNPERF 2000MM - 0801704



NS 35/ 7,5 ZN PERF 2000MM - 1206421



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accessories

NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



NS 35/ 7,5 CU UNPERF 2000MM - 0801762



NS 35/ 7,5 CAP - 1206560



NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



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accessories

NS 35/15 WH PERF 2000MM - 0806602



NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 ZN PERF 2000MM - 1206599



NS 35/15 ZN UNPERF 2000MM - 1206586



NS 35/15 CU UNPERF 2000MM - 1201895



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accessories

NS 35/15 CAP - 1206573



NS 35/15-2,3 UNPERF 2000MM - 1201798



Terminal marking

ZB 16,3:UNPRINTED - 0820222



ZB 20,3:UNPRINTED - 0820248



Labeled terminal marker

ZB 16,3 CUS - 0824946



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accessories

ZB 20,3 CUS - 0824948



End block

CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



E/UK - 1201442



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accessories

E/UK 1 - 1201413



Drawings

Circuit diagram



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