

3049123

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Feed-through terminal block with bolt connection technology, cross section: 0.1 ... 6 mm<sup>2</sup>, AWG: 26 ... 10, width 16.3 mm, color: blue

### Your advantages

- · The special clamping nuts can be actuated with a normal screwdriver
- · Large-surface labeling options in the terminal center and above the terminal points
- · Easy bridging and potential distribution using the patented plug-in bridges from the CLIPLINE complete system
- Quick and easy connection with fold-up hinged covers which hold the clamping nuts captive. With the covers folded open, the bolt is free to accept the cable lugs
- · After closing and engaging the covers, the clamping nut automatically aligns with the threaded bolt and can be tightened easily.
- · The screws are secured against loosening by captive spring-loaded spacers
- The hinged cover cover the live metal parts including the insulated cable lugs in the clamping area so that they are touch proof
- · The use of the switching lock effectively prevents unintentional switching
- · Testing with the standardized test adapters and test plugs of the CLIPLINE complete system
- · Tested for railway applications

#### Commercial data

Item number	3049123
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	0100*
Product key	BE4313
Catalog page	Page 381 (C-1-2019)
GTIN	4046356140805
Weight per piece (including packing)	39.98 g
Weight per piece (excluding packing)	37.18 g
Customs tariff number	85369010
Country of origin	CN



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### Technical data

#### Notes

General	Note: the BE-RT path extension is to be used for non-insulated cable lugs (see accessories).
General	
Note	The rated insulation voltage applies to insulated cable lugs acc. to DIN 46237:1970-07 and for uninsulated cable lugs acc. to DIN 46234:1980-03 with path extension.

### Product properties

Product type	Bolt connection terminal block	
Area of application	Railway industry	
	Machine building	
	Plant engineering	
	Process industry	
Number of connections	2	
Number of rows	1	
Potentials	1	
Insulation characteristics		
Overvoltage category	III	
Degree of pollution	3	

### Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.31 W

### Connection data

Number of connections per level	2
Nominal cross section	6 mm <sup>2</sup>

#### Level 1 above 1 below 1

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	41 A
Maximum load current	41 A (with 6 mm² conductor cross section)
Nominal voltage	1000 V (Rated voltage for open disconnect point 500 V)
Nominal cross section	6 mm²

### Cable lug connection DIN 46234:1980-03

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Connection in acc. with standard	DIN 46234:1980-03
Cross section	0.5 mm² 6 mm²
Cross section range AWG	20 10 (converted acc. to IEC)
Hole diameter	5.3 mm



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Width	10 mm
Bolt diameter	5 mm
Screw thread	M5
Tightening torque	2.5 3 Nm
Connection in acc. with standard	DIN 46237:1970-07
Cross section	1 mm² 6 mm²
Cross section range AWG	18 10 (converted acc. to IEC)
Hole diameter	5.3 mm
Width	10 mm
Bolt diameter	5 mm
Screw thread	M5
Tightening torque	2.5 3 Nm
Identification color of ring cable lugs : red	1 mm²
Identification color of ring cable lugs : blue	2.5 mm²
Identification color of ring cable lugs : yellow	6 mm²
Connection in acc. with standard	DIN 46235:1983-07
Cross section	6 mm² 10 mm²
Cross section range AWG	10 8 (converted acc. to IEC)
Hole diameter	5.3 mm
Width	9 mm
Bolt diameter	5 mm
Screw thread	M5
Tightening torque	2.5 3 Nm

### Ex data

### Rated data (ATEX/IECEx)

Identification	
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	3049097 D-RT 3/5
	0706647 TPNS-UK
	3049819 BE-RT 3/5
	1205079 SZS 1,0X6,5 VDE
	1212553 SF-SL 1,2X6,5-150
	3022276 CLIPFIX 35-5
List of bridges	Plug-in bridge / FBS 2-8 / 3030284
	Plug-in bridge / FBS 3-8 / 3030297
	Plug-in bridge / FBS 4-8 / 3030307
	Plug-in bridge / FBS 5-8 / 3030310
	Plug-in bridge / FBS 6-8 / 3032470
	Plug-in bridge / FBS 10-8 / 3030323
Bridge data	41 A / 6 mm²
Ex temperature increase	40 K (41 A at 6 mm²)
Rated voltage	550 V

Relative insulation material temperature index (Elec., UL 746 B)

Fire protection for rail vehicles (DIN EN 45545-2) R22

Fire protection for rail vehicles (DIN EN 45545-2) R23

Fire protection for rail vehicles (DIN EN 45545-2) R24

Fire protection for rail vehicles (DIN EN 45545-2) R26

Calorimetric heat release NFPA 130 (ASTM E 1354)

Specific optical density of smoke NFPA 130 (ASTM E 662)

Surface flammability NFPA 130 (ASTM E 162)



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for bridging with bridge	550 V
- At bridging between non-adjacent terminal blocks	220 V
- At cut-to-length bridging with cover	220 V
- At cut-to-length bridging with partition plate	550 V
Rated insulation voltage	500 V
output	(Permanent)
Ex level General	
Rated current	41 A
Maximum load current	41 A
Contact resistance	0.41 mΩ
Ex connection data General	
Torque range	2.5 Nm 3 Nm
Nominal cross section	6 mm²
Rated cross section AWG	10
Connection capacity rigid	0.1 mm² 6 mm²
Connection capacity AWG	26 10
Connection capacity flexible	0.1 mm² 6 mm²
Connection capacity AWG	26 10
Dimensions	
Width	16.3 mm
End cover width	2.2 mm
Height	66 mm
Depth	50.4 mm
Depth on NS 35/7,5	51 mm
Depth on NS 35/15	58.5 mm
Material specifications	
Color	blue (RAL 5015)
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	125 °C

130 °C

HL 1 - HL 3

27,5 MJ/kg

passed

passed



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Smoke gas toxicity NFPA 130 (SMP 800C)	passed
trical tests	
Surge voltage test	
Test voltage setpoint	9.8 kV
Result	Test passed
emperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 6 mm²	0.72 kA
Result	Test passed
lower-frequency withstand voltage	
Test voltage setpoint	2.2 kV
Result	Test passed
chanical properties	
Open side panel	Yes
chanical tests	
chanical tests  Mechanical strength  Result	Test passed
lechanical strength Result	Test passed
lechanical strength  Result  ttachment on the carrier	Test passed NS 35
lechanical strength Result	
Mechanical strength Result  Attachment on the carrier  DIN rail/fixing support	NS 35
Result  Itachment on the carrier  DIN rail/fixing support  Result  Vironmental and real-life conditions	NS 35
Result  ttachment on the carrier  DIN rail/fixing support  Result  vironmental and real-life conditions	NS 35 Test passed
echanical strength  Result  ttachment on the carrier  DIN rail/fixing support  Result  ironmental and real-life conditions  eedle-flame test  Time of exposure  Result	NS 35 Test passed 30 s
Result  ttachment on the carrier  DIN rail/fixing support  Result  vironmental and real-life conditions  eedle-flame test  Time of exposure  Result	NS 35 Test passed 30 s
Result  Ittachment on the carrier  DIN rail/fixing support  Result  Vironmental and real-life conditions  leedle-flame test  Time of exposure  Result  Discillation/broadband noise	NS 35 Test passed  30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03
Result  ttachment on the carrier  DIN rail/fixing support  Result  rironmental and real-life conditions  eedle-flame test  Time of exposure  Result  scillation/broadband noise  Specification	NS 35 Test passed  30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03
Result  Ittachment on the carrier  DIN rail/fixing support  Result  Irronmental and real-life conditions  eedle-flame test  Time of exposure  Result  scillation/broadband noise  Specification  Spectrum	NS 35 Test passed  30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03 Service life test category 1, class B, body mounted
Result  Ittachment on the carrier  DIN rail/fixing support  Result  Irronmental and real-life conditions  Result  Itme of exposure  Result  Re	NS 35  Test passed  30 s  Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Service life test category 1, class B, body mounted $f_1 = 5$ Hz to $f_2 = 150$ Hz
Result  Ittachment on the carrier  DIN rail/fixing support  Result  Vironmental and real-life conditions  leedle-flame test  Time of exposure  Result  Pscillation/broadband noise  Spectrum  Frequency  ASD level	NS 35  Test passed  30 s  Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Service life test category 1, class B, body mounted $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ 1.857 (m/s²)²/Hz
Result  Attachment on the carrier  DIN rail/fixing support  Result  Arironmental and real-life conditions  Result  It ime of exposure  Result  Result  Result  Result  Acceleration	NS 35  Test passed  30 s  Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Service life test category 1, class B, body mounted $f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$ 1.857 (m/s²)²/Hz  0.8g



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Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed
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, not exceeding 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 %
andards and regulations	
Connection in acc. with standard	IEC 60947-7-1
punting	
Mounting type	NS 35/7,5
	NS 35/15

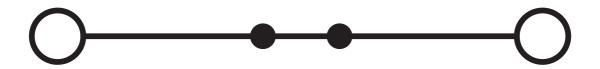


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### Drawings

Circuit diagram





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### **Approvals**

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#### **IECEE CB Scheme**

Approval ID: DE1-62814



### EAC

Approval ID: RU C-DE.BL08.B.00540

VDE approval of di Approval ID: 40022553	rawings			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	1000 V	41 A	-	0.14 - 6

cULus Recogni Approval ID: E60425	CULus Recognized Approval ID: E60425			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	600 V	30 A	-	-
Use group C				
	600 V	30 A	-	-

I ( IEĈEX	IECEx Approval ID: IECExPTB08.0063U				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		550 V	41 A	-	0.1 - 6

<b>€</b>	ATEX Approval ID: PTB09ATEX1003U				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		550 V	41 A	-	0.1 - 6

(uv)	

#### CCC

Approval ID: 2020322313000627



#### UKCA-EX

Approval ID: CSAE 22UKEX1085U



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**EAC Ex** 

Approval ID: KZ 7500525010101950



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### Classifications

### **ECLASS**

	ECLASS-11.0	27141120
	ECLASS-13.0	27250101
ET	TIM	
	ETIM 9.0	EC000897
UN	ISPSC	

UNSPSC 21.0 39121400



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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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