

Feed-through terminal block - BT 2,0 - 3281123

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Feed-through terminal block, nom. voltage: 690 V, nominal current: 24 A, connection method: Ring cable lug, number of connections: 2, cross section: 0.2 mm² - 2.5 mm², width: 8 mm, color: black, mounting type: NS 35/7,5, NS 35/15

Your advantages

- ✓ Convenient ring cable lug connection thanks to the screw connection principle with spring-guided screw; maintenance-free with integrated screw locking
- ✓ Easy potential distribution with time-saving jumper system
- ✓ Safety for users thanks to integrated shock protection
- ✓ Maximum overview thanks to extensive marking and labeling of every terminal point
- ✓ Reduction in logistics costs with the uniform CLIPLINE complete system accessories

RoHS

Key Commercial Data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	 4 055626 119106
GTIN	4055626119106

Technical data

General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	2.5 mm ²
Color	black
Insulating material	PC
Flammability rating according to UL 94	V0
Rated surge voltage	6 kV
Degree of pollution	3
Overvoltage category	III

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Technical data

General

Insulating material group	IIIa
Maximum power dissipation for nominal condition	0.77 W
Ambient temperature (operation)	-40 °C ... 110 °C
Maximum load current	24 A
Nominal current I_N	24 A
Nominal voltage U_N	690 V
Open side panel	Yes
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	7.3 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	1.89 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	2.5 mm ² / 0.7 kg
Tensile test result	Test passed
Conductor cross section tensile test	2.5 mm ²
Tractive force setpoint	50 N
Conductor cross section tensile test	2 mm ²
Tractive force setpoint	50 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	1 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	2.5 mm ²
Short-time current	0.3 kA
Conductor cross section short circuit testing	2 mm ²
Short-time current	0.24 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 2, bogie-mounted

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Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$
Acceleration	3.12 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	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C

Dimensions

Width	8 mm
Length	42 mm
Height NS 35/7,5	33.5 mm
Height NS 35/15	41 mm

Connection data

Connection method	Ring cable lug
Screw thread	M3,5
Tightening torque, min	1 Nm
Tightening torque max	1.3 Nm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	2.5 mm ²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.2 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm ²
Cable lug connection according to standard	DIN 46234:1980-03
Min. cross section for cable lug connection	0.14 mm ²
Max. cross section for cable lug connection	2.5 mm ²
AWG min	26
AWG max	16
Hole diameter, min.	3.7 mm
Cable lug width, max.	6.8 mm
Bolt diameter	3.5 mm

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Connection data

Screw thread	M3,5
Tightening torque, min	1 Nm
Tightening torque max	1.3 Nm

Connection data (JIS standard)

Connection method	Ring cable lug
Connection in acc. with standard	JIS 8207-7-1
Single-wire/terminal point, solid diameter min.	0.5 mm
Single-wire/terminal point, solid diameter max.	1.6 mm
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	2 mm ²
Cable lug connection according to standard	JIS 8207-7-1
Min. cross section for cable lug connection	0.5 mm ²
Max. cross section for cable lug connection	2 mm ²
Hole diameter, min.	3.7 mm
Cable lug width, max.	6.8 mm
Bolt diameter	3.5 mm
Screw thread	M3,5
Tightening torque, min	1 Nm
Tightening torque max	1.3 Nm
Nominal current I _N	21 A
Maximum load current	21 A
Nominal voltage U _N	600 V

Standards and Regulations

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

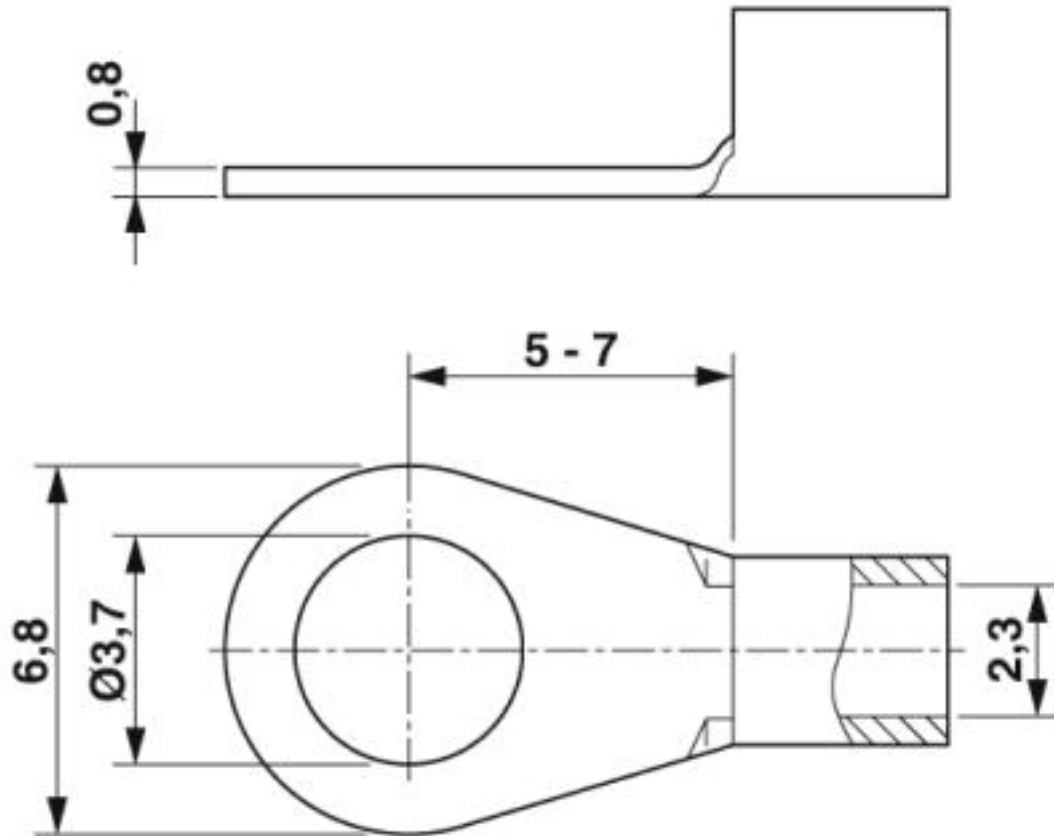
Environmental Product Compliance

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

Drawings

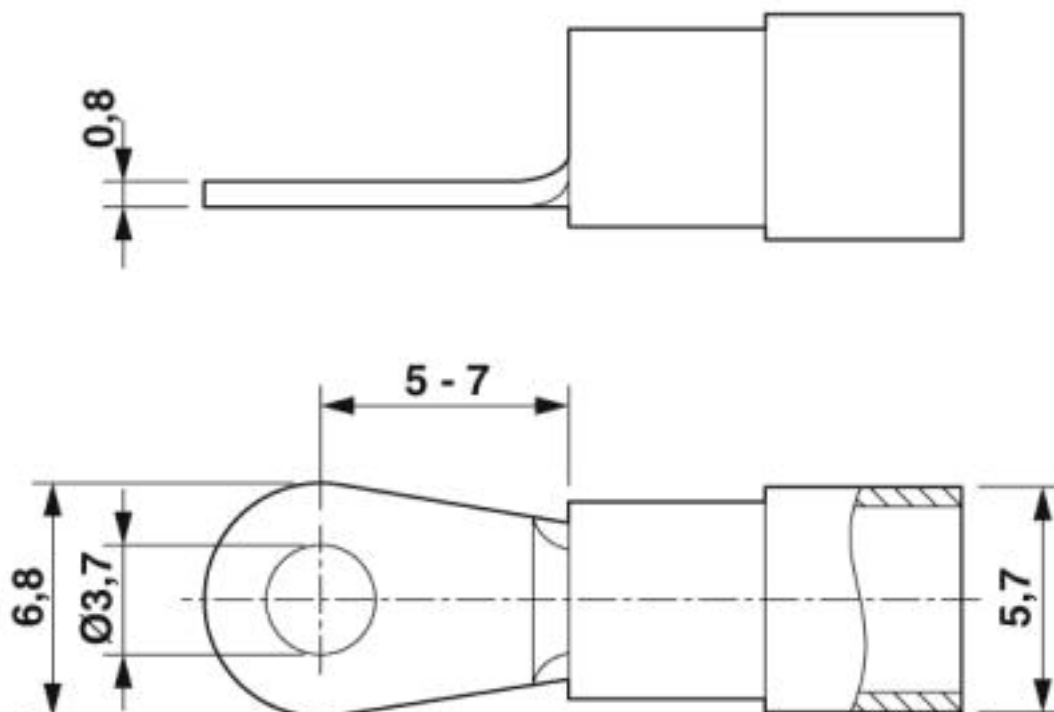
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Dimensional drawing



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Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

DNV GL / CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

DNV GL



<https://approvalfinder.dnvgl.com/>

TAE00001S2

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Approvals

CSA		http://www.csagroup.org/services-industries/product-listing/	13631
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	15 A	15 A	
mm²/AWG/kcmil	26-14	26-14	

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	15 A	15 A	
mm²/AWG/kcmil	26-14	26-14	

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	15 A	15 A	
mm²/AWG/kcmil	26-14	26-14	

EAC		RU C- DE.BL08.B.00541
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cULus Recognized	
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