

Feed-through terminal block - BTO 5,5 - 3281139

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Feed-through terminal block, with an open screw shaft, nom. voltage: 690 V, nominal current: 41 A, connection method: Ring cable lug, number of connections: 2, cross section: 0.2 mm² - 6 mm², width: 11 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
GTIN	 4 055626 406848
GTIN	4055626406848

Technical data

General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	6 mm ²
Color	black
Insulating material	PC
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	IIIa

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Technical data

General

Maximum power dissipation for nominal condition	1.02 W
Ambient temperature (operation)	-40 °C ... 110 °C
Maximum load current	41 A
Nominal current I_N	41 A
Nominal voltage U_N	690 V
Open side panel	Yes
Shock protection test specification	IEC 60529:2001-02
Back of the hand protection	guaranteed
Finger 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	1.89 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	5 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	6 mm ²
Short-time current	0.72 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s

Dimensions

Width	11 mm
Length	50.2 mm
Height NS 35/7,5	41 mm
Height NS 35/15	48.5 mm

Connection data

Connection method	Ring cable lug
Screw thread	M4
Tightening torque, min	1.4 Nm
Tightening torque max	2 Nm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section flexible min.	0.14 mm ²

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Technical data

Connection data

Conductor cross section flexible max.	6 mm ²
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.2 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 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	6 mm ²
AWG min	26
AWG max	10
Hole diameter, min.	4.3 mm
Cable lug width, max.	9.8 mm
Bolt diameter	4 mm
Screw thread	M4
Tightening torque, min	1.4 Nm
Tightening torque max	2 Nm

Connection data (JIS standard)

Connection method	Ring cable lug
Connection in acc. with standard	JIS 8207-7-1
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	5.5 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	5.5 mm ²
Hole diameter, min.	4.3 mm
Cable lug width, max.	9.8 mm
Bolt diameter	4 mm
Screw thread	M4
Tightening torque, min	1.4 Nm
Tightening torque max	2 Nm
Nominal current I _N	40 A
Maximum load current	40 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
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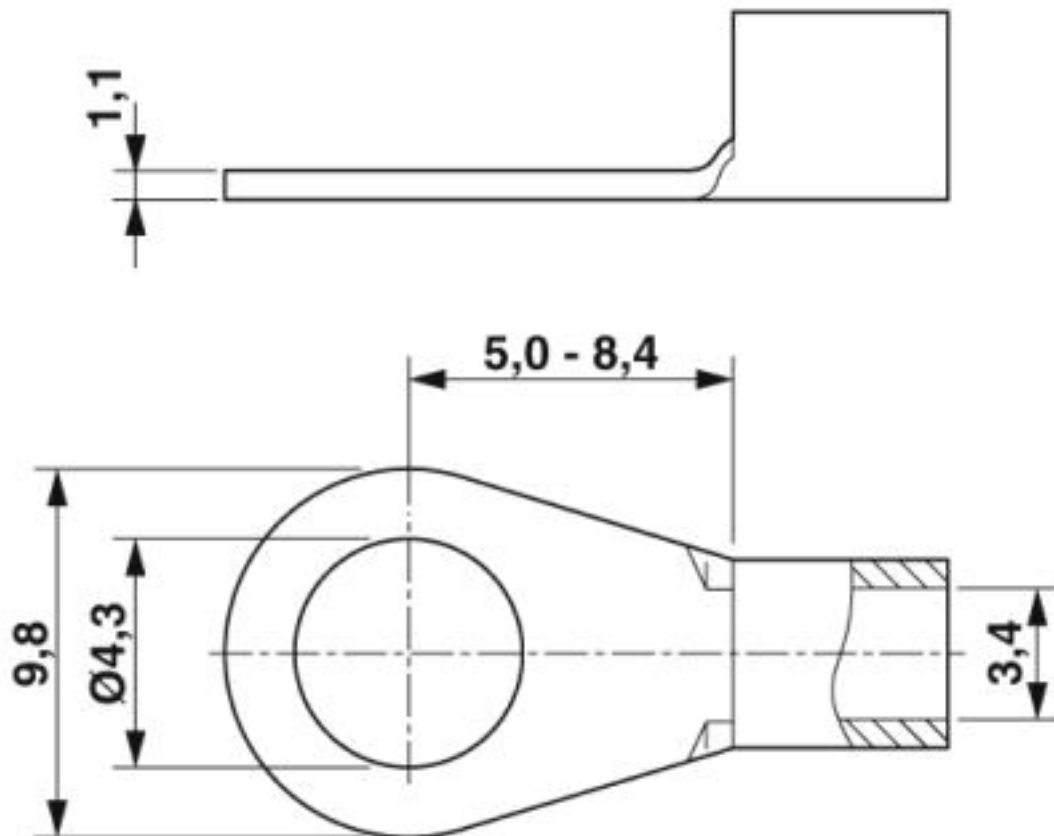
Technical data

Environmental Product Compliance

	No hazardous substances above threshold values
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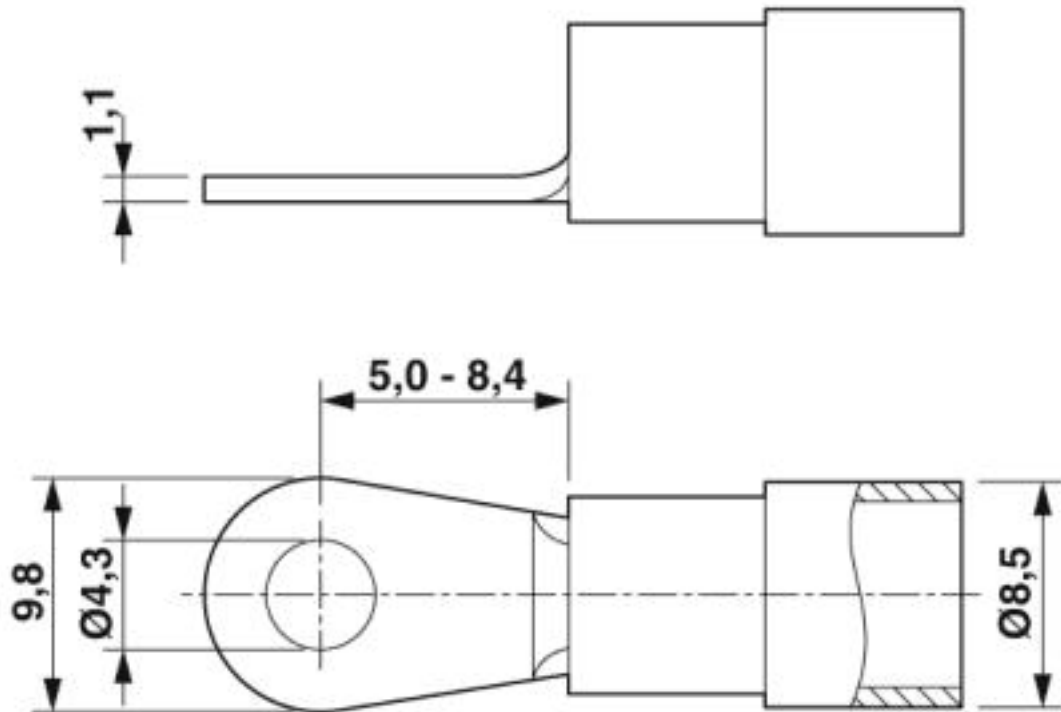
Drawings

Dimensional drawing



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Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details

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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	40 A	40 A	
mm²/AWG/kcmil	24-8	24-8	

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	40 A	40 A	
mm²/AWG/kcmil	24-8	24-8	

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	40 A	40 A	
mm²/AWG/kcmil	24-8	24-8	

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