

Feed-through terminal block - BTH 1,25 - 3281101

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Feed-through terminal block, connection method: Ring cable lug, Push-in connection, AWG: 26 - 16, width: 7 mm, color: black, mounting: NS 35/7,5, NS 35/15

Your advantages

- ✓ Free choice of connection technology – meet requirements for internal and external wiring at the same time thanks to different connection methods in a single terminal block
- ✓ Convenient ring cable lug connection thanks to the screw connection principle with spring-guided screw; maintenance-free with integrated screw locking
- ✓ Easy and tool-free direct plug-in thanks to push-in multi-conductor connection
- ✓ 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 119120
GTIN	4055626119120

Technical data

General

Number of levels	1
Number of connections	3
Nominal cross section	1.5 mm ²
Color	black
Insulating material	PC
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV

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Technical data

General

Degree of pollution	3
Overvoltage category	III
Insulating material group	IIIa
Maximum power dissipation for nominal condition	0.56 W
Ambient temperature (operation)	-40 °C ... 110 °C
Connection method	Ring cable lug
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	17.5 A
Nominal current I_N	17.5 A
Nominal voltage U_N	690 V
Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	17.5 A (The maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal current I_N	17.5 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	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 bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.14 mm ² / 0.2 kg
	1.5 mm ² / 0.4 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.14 mm ²
Tractive force setpoint	10 N
Conductor cross section tensile test	1.5 mm ²
Tractive force setpoint	40 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

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Technical data

General

Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	1.5 mm ²
Short-time current	0.18 kA
Result of aging test	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
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
Test frequency	f ₁ = 5 Hz to f ₂ = 250 Hz
ASD level	6.12 (m/s ²)/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	7 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
Connection in acc. with standard	IEC 60947-7-1
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	1 Nm
Stripping length	8 mm ... 9 mm
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	16

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Technical data

Connection data

Cable lug connection according to standard	DIN 46234
Min. cross section for cable lug connection	0.14 mm ²
Max. cross section for cable lug connection	1.5 mm ²
AWG min	26
AWG max	16
Hole diameter, min.	3.2 mm
Cable lug width, max.	5.8 mm
Bolt diameter	3 mm
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	1 Nm
Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Stripping length	8 mm ... 9 mm
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	16
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	0.75 mm ²
Conductor cross section solid min.	0.25 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG min.	22
Conductor cross section AWG max.	16
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	0.75 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm ²

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.	1.25 mm ²
Cable lug connection according to standard	JIS 8207-7-1

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Technical data

Connection data (JIS standard)

Min. cross section for cable lug connection	0.5 mm ²
Max. cross section for cable lug connection	1.25 mm ²
Hole diameter, min.	3.2 mm
Cable lug width, max.	5.8 mm
Bolt diameter	3 mm
Screw thread	M3
Tightening torque, min	0.6 Nm
Tightening torque max	1 Nm
Nominal current I _N	16 A
Maximum load current	16 A
Nominal voltage U _N	600 V
Connection method	Push-in connection
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.	1.2 mm
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	1.25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	0.75 mm ²
Connection cross sections directly pluggable	0.5 mm 1.2 mm
Single-wire/terminal point, solid diameter min.	0.5 mm
Single-wire/terminal point, solid diameter max.	1.2 mm
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	0.75 mm ²

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
	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

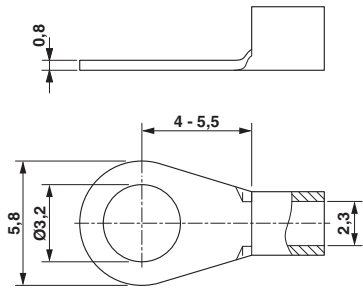
Drawings

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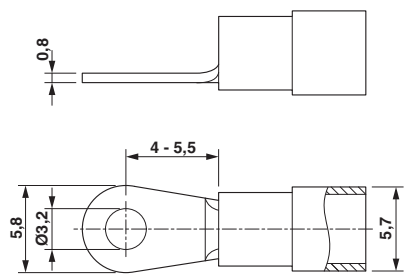
Circuit diagram



Dimensional drawing



Dimensional drawing



Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
	B	C	
Nominal voltage UN	300 V	300 V	
Nominal current IN	10 A	10 A	
mm²/AWG/kcmil	26-16	26-16	

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Approvals

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
	B	C	
Nominal voltage UN	300 V	300 V	
Nominal current IN	10 A	10 A	
mm²/AWG/kcmil	26-16	26-16	

CSA		http://www.csagroup.org/services-industries/product-listing/	13631
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	10 A	10 A	
mm²/AWG/kcmil	26-16	26-16	

DNV GL	http://exchange.dnv.com/tari/	TAE00001S2
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm
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