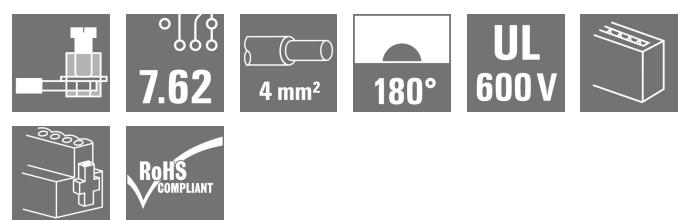
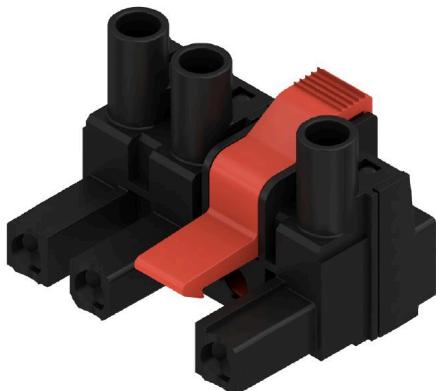


BLZ 7.62IT/03/180MF2 SN BK BX PRT

Weidmüller Interface GmbH & Co. KG
 Klingenbergsstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Product image

180° female plug with a 7.62 pitch for IT power networks. Meets the requirements of UL1059 600 V class C. In combination with male header SL 7.62 IT.... With leading contact. Meets the extended requirements on 5.5 mm touch safety for IT power networks as per IEC 61800-5-1 for 400 V to earth. The self-locking middle flange which can optionally be screwed, reduces space requirements by one pitch width in comparison with conventional solutions.

On request also available without middle flange interlock.

General ordering data

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 3, 180°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box
Order No.	1419470000
Type	BLZ 7.62IT/03/180MF2 SN BK BX PRT
GTIN (EAN)	4050118223194
Qty.	50 items
Product data	IEC: 630 V / 29 A / 0.08 - 4 mm ² UL: 600 V / 20 A / AWG 20 - AWG 12
Packaging	Box

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Technical data

Approvals

Approvals



ROHS Conform
UL File Number Search [UL Website](#)
Certificate No. (cURus) E60693

Dimensions and weights

Depth 23.4 mm
Height 21.2 mm
Width 30.48 mm
Net weight 7.27 g

Depth (inches) 0.9213 inch
Height (inches) 0.8346 inch
Width (inches) 1.2 inch

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption
REACH SVHC No SVHC above 0.1 wt%

System Parameters

Product family OMNIMATE Power - series
BL/SL 7.62IT
Wire connection method Clamping yoke connection
Pitch in inches (P) 0.300 "
Number of poles 3
L1 in inches 0.900 "
Pin series quantity 1
Touch-safe protection acc. to DIN VDE 57 106 Safe from finger touch
Protection degree IP20, when fully mounted
Can be coded Yes
Tightening torque, min. 0.4 Nm
Clamping screw M 2.5
Plugging cycles 25
Pulling force/pole, max. 8.5 N

Type of connection Field connection
Pitch in mm (P) 7.62 mm
Conductor outlet direction 180°
L1 in mm 22.86 mm
Number of rows 1
Rated cross-section 2.5 mm²
Touch-safe protection acc. to DIN VDE 0470 IP 20
Volume resistance 5.00 mΩ
Stripping length 7 mm
Tightening torque, max. 0.5 Nm
Screwdriver blade standard DIN 5264
Plugging force/pole, max. 9.5 N

Material data

Insulating material PBT
Colour chart (similar) RAL 9011
Comparative Tracking Index (CTI) ≥ 200
Moisture Level (MSL)
Contact material Cu-alloy
Layer structure of plug contact 4...8 µm Sn hot-dip tinned
Storage temperature, max. 70 °C
Operating temperature, max. 100 °C
Temperature range, installation, max. 100 °C

Colour black
Insulating material group IIIa
Insulation resistance ≥ 10⁸ Ω
UL 94 flammability rating V-0
Contact surface tinned
Storage temperature, min. -40 °C
Operating temperature, min. -50 °C
Temperature range, installation, min. -25 °C

Conductors suitable for connection

Clamping range, min. 0.08 mm²
Clamping range, max. 4 mm²
Wire connection cross section AWG, min. AWG 28

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Wire connection cross section AWG, AWG 12 max.

Solid, min. H05(07) V-U 0.08 mm²

Solid, max. H05(07) V-U 4 mm²

Flexible, min. H05(07) V-K 0.08 mm²

Flexible, max. H05(07) V-K 4 mm²

w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm² min.

w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm² max.

w. wire end ferrule, DIN 46228 pt 1, 0.2 mm² min.

w. wire end ferrule, DIN 46228 pt 1, 2.5 mm² max.

Plug gauge in accordance with EN 60999 a x b; ø 2.8 mm x 2.4 mm

Clampable conductor

Cross-section for conductor connection	nominal	0.25 mm ²
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire-end ferrule	H0,25/12 HBL
Cross-section for conductor connection	nominal	0.34 mm ²
wire end ferrule	Stripping length	nominal 10 mm
	Recommended wire-end ferrule	H0,34/12 TK
Cross-section for conductor connection	nominal	0.5 mm ²
wire end ferrule	Stripping length	nominal 6 mm
	Recommended wire-end ferrule	H0,5/6
Cross-section for conductor connection	nominal	0.75 mm ²
wire end ferrule	Stripping length	nominal 6 mm
	Recommended wire-end ferrule	H0,75/6
Cross-section for conductor connection	nominal	1 mm ²
wire end ferrule	Stripping length	nominal 6 mm
	Recommended wire-end ferrule	H1,0/6
Cross-section for conductor connection	nominal	1.5 mm ²
wire end ferrule	Stripping length	nominal 7 mm
	Recommended wire-end ferrule	H1,5/7
Cross-section for conductor connection	nominal	2.5 mm ²
wire end ferrule	Stripping length	nominal 7 mm
	Recommended wire-end ferrule	H2,5/7

Reference text

The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	29 A
Rated current, max. number of poles (Tu=20°C)	26.5 A	Rated current, min. number of poles (Tu=40°C)	25 A
Rated current, max. number of poles (Tu=40°C)	23 A	Rated voltage for surge voltage class / pollution degree II/2	630 V
Rated voltage for surge voltage class / pollution degree III/2	500 V	Rated voltage for surge voltage class / pollution degree III/3	400 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Short-time withstand current resistance	3 x 1s with 180 A

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Creepage distance, min.	11.3 mm	Clearance, min.	9.8 mm
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Rated data acc. to CSA

Rated voltage (Use group B / CSA)	600 V	Rated voltage (Use group C / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group B / CSA)	20 A
Rated current (Use group C / CSA)	20 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 12

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Use group B / UL 1059)	20 A
Rated current (Use group C / UL 1059)	20 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	349.00 mm
VPE width	138.00 mm	VPE height	31.00 mm

Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96
	Test	mark of origin, type identification, pitch, type of material, date clock
	Evaluation	available
	Test	durability
	Evaluation	passed
Test: Misengagement (Non-interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN EN 60512-13-5 / 11.06
	Test	180° turned with coding elements
	Evaluation	passed
	Test	180° turned without coding elements
	Evaluation	passed
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section
		Type of conductor stranded 0.5 mm ² and conductor cross-section
		Type of conductor solid 2.5 mm ² and conductor cross-section
		Type of conductor stranded 2.5 mm ² and conductor cross-section
		Type of conductor AWG 20/1 and conductor cross-section
		Type of conductor AWG 20/19 and conductor cross-section

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Test for damage to and accidental loosening of conductors	Evaluation	Type of conductor and conductor cross-section	AWG 12/1
		Type of conductor and conductor cross-section	AWG 12/19
	Evaluation	passed	
	Standard	DIN EN 60999-1 section 9.4 / 12.00	
	Requirement	0.2 kg	
	Conductor type	Type of conductor and conductor cross-section	AWG 28/1
		Type of conductor and conductor cross-section	AWG 28/19
	Evaluation	passed	
	Requirement	0.3 kg	
	Conductor type	Type of conductor and conductor cross-section	H05V-U0.5
		Type of conductor and conductor cross-section	H05V-K0.5
Pull-out test	Evaluation	passed	
	Requirement	0.7 kg	
	Conductor type	Type of conductor and conductor cross-section	AWG 14/1
		Type of conductor and conductor cross-section	AWG 14/19
	Evaluation	passed	
	Requirement	0.9 kg	
	Conductor type	Type of conductor and conductor cross-section	H07V-U4.0
		Type of conductor and conductor cross-section	H07V-K4.0
	Evaluation	passed	
	Standard	DIN EN 60999-1 section 9.5 / 12.00	
	Requirement	≥5 N	
	Conductor type	Type of conductor and conductor cross-section	AWG 28/1
		Type of conductor and conductor cross-section	AWG 28/19
	Evaluation	passed	
	Requirement	≥20 N	
	Conductor type	Type of conductor and conductor cross-section	H05V-U0.5
		Type of conductor and conductor cross-section	H05V-K0.5
	Evaluation	passed	
	Requirement	≥50 N	
	Conductor type	Type of conductor and conductor cross-section	AWG 14/1

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Technical data

	Type of conductor and conductor cross-section	AWG 14/19
	Type of conductor and conductor cross-section	H07V-K4.0
Evaluation	Requirement	passed
Evaluation	Conductor type	passed
Evaluation	Type of conductor and conductor cross-section	H07V-U4.0
Evaluation		passed

Important note

IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
Notes	<ul style="list-style-type: none"> Additional variants on request Gold-plated contact surfaces on request Rated current related to rated cross-section & min. No. of poles. Wire end ferrule without plastic collar to DIN 46228/1 Wire end ferrule with plastic collar to DIN 46228/4 In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

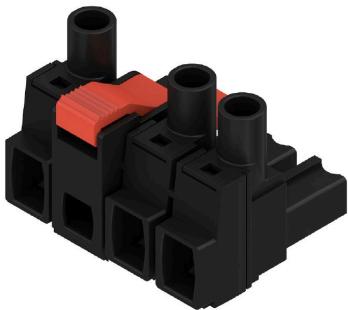
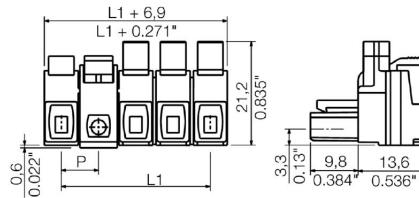
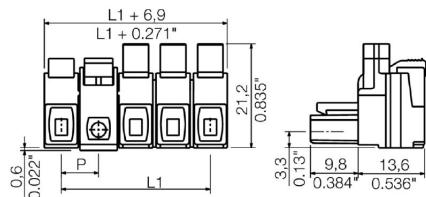
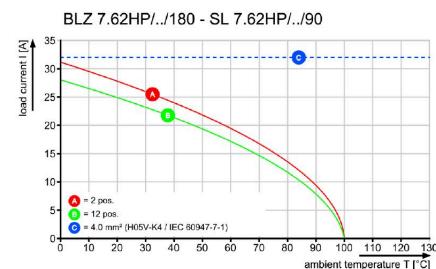
Classifications

ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

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Drawings**Product image****Dimensional drawing****Dimensional drawing****Graph****Graph**