



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image Similar to illustration















Female plugs with clamping-yoke screw wire-connect system. The female plugs provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, female plug, 7.50 mm,
	Number of poles: 2, 180°, Clamping yoke connec-
	tion, Clamping range, max. : 3.31 mm², Box
Order No.	<u>1628030000</u>
Туре	BLZ 7.50/02/180 SN BK BX
GTIN (EAN)	4008190200831
Qty.	100 items
Product data	IEC: 800 V / 18.5 A / 0.2 - 2.5 mm ²
	UL: 300 V / 15 A / AWG 26 - AWG 12
Packaging	Box



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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

Dimensions and weights

Depth	20.1 mm	Depth (inches)	0.7913 inch
Height	15.2 mm	Height (inches)	0.5984 inch
Net weight	3.77 g		

Environmental Product Compliance

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

System Parameters

Product family	OMNIMATE Signal - series BL/SL 7.50	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	7.50 mm
Pitch in inches (P)	0.295 "	Conductor outlet direction	180°
Number of poles	2	L1 in mm	7.50 mm
L1 in inches	0.295 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Volume resistance	4.50 mΩ	Can be coded	Yes
Stripping length	7 mm	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Clamping screw	M 2.5
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264
Plugging force/pole, max.	9 N	Pulling force/pole, max.	8.5 N

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C		

Conductors suitable for connection

Clamping range, min.	0.13 mm ²
Clamping range, max.	3.31 mm ²
Wire connection cross section AWG,	AWG 26
min.	
Wire connection cross section AWG,	AWG 12
max.	
Solid, min. H05(07) V-U	0.2 mm ²

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Solid, max. H05(07) V-U	2.5 mm ²			
Flexible, min. H05(07) V-K	0.2 mm ²			
Flexible, max. H05(07) V-K	2.5 mm ²			
w. plastic collar ferrule, DIN 46228 pt min.	4, 0.2 mm²			
w. plastic collar ferrule, DIN 46228 pt	4, 2.5 mm²			
max.	0.0			
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²			
w. wire end ferrule, DIN 46228 pt 1,	2.5 mm²			
max.	2.5 111111-			
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.0 mm; 2.4 mm			
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired	
		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	Туре	fine-wired	
		nominal	1 mm ²	
	wire end ferrule	Stripping length	nominal	6 mm
		Recommended wire- end ferrule	H1,0/6	
	Cross-section for conductor connection	Type	fine-wired	
		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	Туре	fine-wired	
		nominal	2.5 mm ²	
	wire end ferrule	Stripping length	nominal	7 mm
		Recommended wire- end ferrule	H2,5/7	
	Cross-section for conductor connection	Туре	fine-wired	
		nominal	0.75 mm ²	
	wire end ferrule	Stripping length	nominal	6 mm
		Recommended wire- end ferrule	H0,75/6	
Reference text	The outside diameter of the plastic collar shou is to be chosen depending on the product and	uld not be larger than the pi	itch (P), Length	n of ferrule

Rated data acc. to IEC

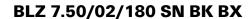
tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	18.5 A
Rated current, max. number of poles (Tu=20°C)	17 A	Rated current, min. number of poles (Tu=40°C)	15 A
Rated current, max. number of poles (Tu=40°C)	14.5 A	Rated voltage for surge voltage class / pollution degree II/2	800 V
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated voltage for surge voltage class / pollution degree III/3	500 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 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 120 A

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V

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Rated current (Use group B / CSA)	15 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (UR)	UR	Certificate No. (UR)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	15 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	136.00 mm
VPE width	93.00 mm	VPE height	78.00 mm

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking	
root. Barasiity or markings	Staridard	pattern from DIN EN 60068-2-70 / 07.96	
	Test	mark of origin, type identification, rated cross-	
		section, rated voltage, pitch, type of material,	
		approval marking UL, approval marking CSA	
	Evaluation	available	
	Test	durability	
	Evaluation	passed	
Test: Misengagement (Non- nterchangeability)	Standard	draft DIN VDE 0627 section 5.9.1 / 09.91, DIN IEC 60512-7 section 5 / 05.94	
	Test	180° turned with coding elements	
	Evaluation	passed	
Test: Clampable cross section	Standard	DIN EN 60999 section 6 and 8.1 / 04.94, DIN EN 60947-1 section 8.2.4.5.1 / 07.98	
	Conductor type	Type of conductor solid 0.08 mm ² and conductor cross-section	
		Type of conductor stranded 0.08 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 28/1 and conductor cross-section	
		Type of conductor AWG 28/19 and conductor cross-section	
		Type of conductor AWG 12/1 and conductor cross-section	
		Type of conductor AWG 12/19 and conductor cross-section	





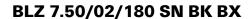
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Test for damage to and accidental	Standard DIN EN 60999 section 8.4 / 04.94			
loosening of conductors	Requirement	0.2 kg		
	Conductor type	Type of conductor AWG 28/1 and conductor cross-section		
		Type of conductor AWG 28/7 and conductor cross-section		
	Evaluation	passed		
	Requirement	0.3 kg		
	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		
	Evaluation	passed		
	Requirement	0.7 kg		
	Conductor type	Type of conductor solid 2.5 mm ² and conductor cross-section		
		Type of conductor stranded 2.5 mm ² and conductor cross-section		
	Evaluation	passed		
	Requirement	0.9 kg		
	Conductor type	Type of conductor AWG 12/1 and conductor cross-section		
		Type of conductor AWG 12/19 and conductor cross-section		
	Evaluation passed			
Pull-out test	Standard	Standard DIN EN 60999 section 8.5 / 04.94		
	Requirement	≥5 N		
	Conductor type	Type of conductor AWG 28/1 and conductor cross-section		
		Type of conductor AWG 28/7 and conductor cross-section		
	Evaluation	passed		
	Requirement	≥50 N		
	Conductor type	Type of conductor H05V-U2.5 and conductor cross-section		
		Type of conductor H05V-K2.5 and conductor cross-section		
	Evaluation	passed		
	Requirement	≥60 N		
	Conductor type	Type of conductor AWG 12/1 and conductor cross-section		
		Type of conductor AWG 12/19		
		and conductor cross- section		





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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	 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 P on drawing = pitch Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards. 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		



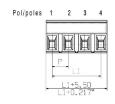
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Drawings

Dimensional drawing





Derating curve

