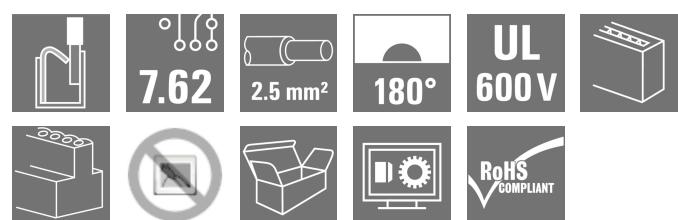
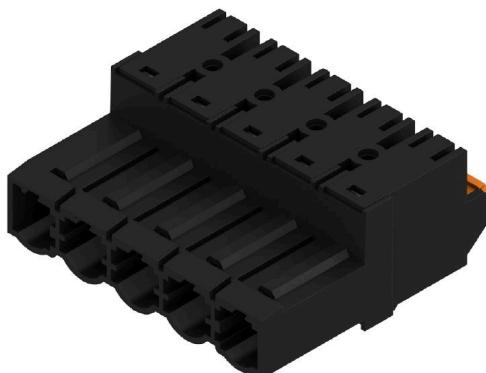


**SLF 7.62HP/05/180G SN BK BX**

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

[www.weidmueller.com](http://www.weidmueller.com)

**Product image**

180° inverted male header with PUSH-IN connection technology for field wiring in 2.5 mm<sup>2</sup> with a 7.62 pitch. Also ideal as a touch-safe solution for inverse voltages. Meets the requirements of UL1059 600 V class C and IEC 61800-5-1. Variants: available without flange, with external flange, with release latch.

**General ordering data**

Version	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 5, 180°, PUSH IN with actuator, Tension-clamp connection, Clamping range, max. : 2.5 mm <sup>2</sup> , Box
Order No.	<a href="#">1043620000</a>
Type	SLF 7.62HP/05/180G SN BK BX
GTIN (EAN)	4032248775194
Qty.	48 items
Product data	IEC: 1000 V / 24 A / 0.5 - 2.5 mm <sup>2</sup> 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	<a href="#">UL Website</a>
Certificate No. (cURus)	E60693

## Dimensions and weights

Depth	34.75 mm	Depth (inches)	1.3681 inch
Height	15.1 mm	Height (inches)	0.5945 inch
Width	37.48 mm	Width (inches)	1.4756 inch
Net weight	15.48 g		

## 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 7.62HP	Type of connection	Field connection
Wire connection method	PUSH IN with actuator, Tension-clamp connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Conductor outlet direction	180°
Number of poles	5	L1 in mm	30.48 mm
L1 in inches	1.200 "	Number of rows	1
Pin series quantity	1	Rated cross-section	2.5 mm <sup>2</sup>
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Volume resistance	≤5 mΩ	Can be coded	Yes
Stripping length	10 mm	Tightening torque for screw flange, min.	0.15 Nm
Tightening torque for screw flange, max.	0.25 Nm	Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264	Plugging cycles	25

## 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	Layer structure of plug contact	2...3 µm Ni / 2...4 µm Sn matt
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.	0.08 mm <sup>2</sup>
Clamping range, max.	2.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 20

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Wire connection cross section AWG, max. AWG 14

Solid, min. H05(07) V-U 0.5 mm<sup>2</sup>

Solid, max. H05(07) V-U 2.5 mm<sup>2</sup>

Flexible, min. H05(07) V-K 0.5 mm<sup>2</sup>

Flexible, max. H05(07) V-K 2.5 mm<sup>2</sup>

w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm<sup>2</sup> min.

w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm<sup>2</sup> max.

w. wire end ferrule, DIN 46228 pt 1, 0.5 mm<sup>2</sup> min.

w. wire end ferrule, DIN 46228 pt 1, 1.5 mm<sup>2</sup> max.

Plug gauge in accordance with EN 60999 a x b; ø 2.8 mm x 2.0 mm

Clampable conductor

Cross-section for conductor connection

Type fine-wired

nominal 0.5 mm<sup>2</sup>

wire end ferrule

Stripping length nominal 12 mm

Recommended wire-end ferrule [H0,5/16 OR](#)

Stripping length nominal 10 mm

Recommended wire-end ferrule [H0,5/10](#)

Cross-section for conductor connection

Type fine-wired

nominal 0.75 mm<sup>2</sup>

wire end ferrule

Stripping length nominal 12 mm

Recommended wire-end ferrule [H0,75/16 W](#)

Stripping length nominal 10 mm

Recommended wire-end ferrule [H0,75/10](#)

Cross-section for conductor connection

Type fine-wired

nominal 1 mm<sup>2</sup>

wire end ferrule

Stripping length nominal 12 mm

Recommended wire-end ferrule [H1,0/16D R](#)

Stripping length nominal 10 mm

Recommended wire-end ferrule [H1,0/10](#)

Cross-section for conductor connection

Type fine-wired

nominal 1.5 mm<sup>2</sup>

wire end ferrule

Stripping length nominal 12 mm

Recommended wire-end ferrule [H1,5/16 R](#)

Stripping length nominal 10 mm

Recommended wire-end ferrule [H1,5/10](#)

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)	24 A
Rated current, max. number of poles (Tu=20°C)	24 A	Rated current, min. number of poles (Tu=40°C)	23.8 A
Rated current, max. number of poles (Tu=40°C)	21 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	1000 V	Rated voltage for surge voltage class / pollution degree III/3	630 V

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## Technical data

Rated impulse voltage for surge voltage 6 kV class/ pollution degree II/2	
Rated impulse voltage for surge voltage 6 kV class/ contamination degree III/3	
Creepage distance, min.	10.7 mm

Rated impulse voltage for surge voltage 8 kV class/ pollution degree III/2	
Short-time withstand current resistance 3 x 1s with 180 A	
Clearance, min.	10.7 mm

## Rated data acc. to CSA

Institute (CSA)	CSA
Rated voltage (Use group B / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V
Rated current (Use group C / CSA)	20 A
Wire cross-section, AWG, min.	AWG 20
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Certificate No. (CSA)	200039-1121690
Rated voltage (Use group C / CSA)	600 V
Rated current (Use group B / CSA)	20 A
Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, max.	AWG 12

## Rated data acc. to UL 1059

Institute (cURus)	CURUS
Rated voltage (Use group B / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V
Rated current (Use group C / UL 1059)	20 A
Wire cross-section, AWG, min.	AWG 20
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Certificate No. (cURus)	E60693
Rated voltage (Use group C / UL 1059)	600 V
Rated current (Use group B / UL 1059)	20 A
Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, max.	AWG 12

## Packing

Packaging	Box
VPE width	135.00 mm

VPE length	352.00 mm
VPE height	48.00 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, durability, type of material, date clock, approval marking UL, approval marking CSA																							
	Evaluation	available																							
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 / 04.08																							
	Conductor type	<table> <tr> <td>Type of conductor</td> <td>solid 0.5 mm<sup>2</sup></td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> <tr> <td>Type of conductor</td> <td>stranded 0.5 mm<sup>2</sup></td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> <tr> <td>Type of conductor</td> <td>solid 1.5 mm<sup>2</sup></td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> <tr> <td>Type of conductor</td> <td>stranded 2.5 mm<sup>2</sup></td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> <tr> <td>Type of conductor</td> <td>H07V-K2.5</td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> <tr> <td>Type of conductor</td> <td>H07V-U2.5</td> </tr> <tr> <td>and conductor cross-section</td> <td></td> </tr> </table>	Type of conductor	solid 0.5 mm <sup>2</sup>	and conductor cross-section		Type of conductor	stranded 0.5 mm <sup>2</sup>	and conductor cross-section		Type of conductor	solid 1.5 mm <sup>2</sup>	and conductor cross-section		Type of conductor	stranded 2.5 mm <sup>2</sup>	and conductor cross-section		Type of conductor	H07V-K2.5	and conductor cross-section		Type of conductor	H07V-U2.5	and conductor cross-section
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## Technical data

Test for damage to and accidental loosening of conductors	Type of conductor and conductor cross-section	AWG 20/19
	Type of conductor and conductor cross-section	AWG 20/1
	Type of conductor and conductor cross-section	AWG 12/19
	Type of conductor and conductor cross-section	AWG 14/1
	Evaluation	passed
	Standard	DIN EN 60999-1 section 9.4 / 12.00
	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
		Type of conductor and conductor cross-section AWG 20/1
Pull-out test	Type of conductor and conductor cross-section	AWG 20/19
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	Type of conductor and conductor cross-section H07V-U1.5
	Evaluation	passed
	Requirement	0.7 kg
	Conductor type	Type of conductor and conductor cross-section H07V-K2.5
		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 AWG 12/19
	Evaluation	passed
	Standard	DIN EN 60999-1 section 9.5 / 12.00
	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
		Type of conductor and conductor cross-section AWG 20/1
		Type of conductor and conductor cross-section AWG 20/19
	Evaluation	passed
	Requirement	≥40 N

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Conductor type	Type of conductor and conductor cross-section	H07V-U1.5
Evaluation	passed	
Requirement	≥50 N	
Conductor type	Type of conductor and conductor cross-section	H07V-K2.5
	Type of conductor and conductor cross-section	AWG 14/19
Evaluation	passed	
Requirement	≥60 N	
Conductor type	Type of conductor and conductor cross-section	AWG 12/19
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"> <li>Additional variants on request</li> <li>Gold-plated contact surfaces on request</li> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>Wire end ferrule without plastic collar to DIN 46228/1</li> <li>Wire end ferrule with plastic collar to DIN 46228/4</li> <li>P on drawing = pitch</li> <li>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.</li> <li>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</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

## Classifications

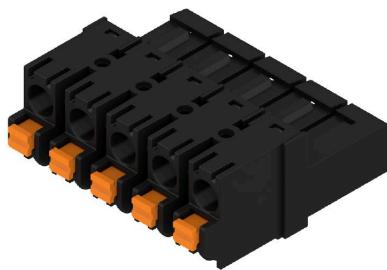
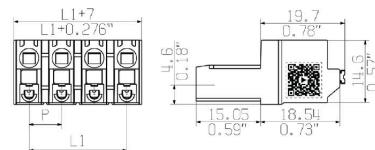
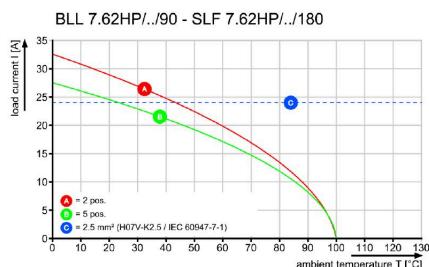
ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

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**Drawings**

[www.weidmueller.com](http://www.weidmueller.com)

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