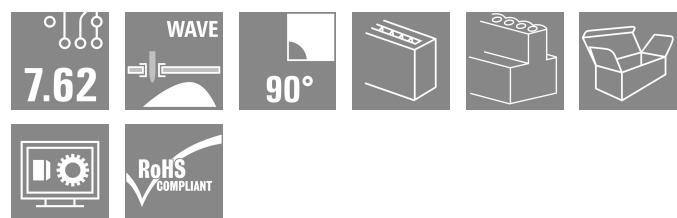
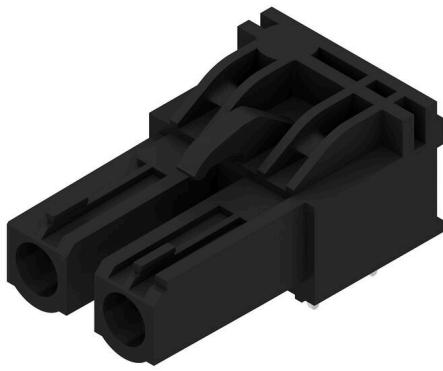


BLL 7.62HP/02/90 3.2SN BK BX

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

www.weidmueller.com

Product image

90° female header for the PCB with a pitch of 7.62.
Meets IEC 61800-5-1 requirements and enables UL
approval as per UL840 600 V. Ideal touch-safe solution
for the power output and intermediate circuit applica-
tions.

The mating profile guarantees touch safety of >3 mm as
per IEC61800-5-1.

Variants: without flange, flange version, soldered flange
version.

General ordering data

Version	PCB plug-in connector, female header, closed side, THT solder connection, 7.62 mm, Number of poles: 2, 90°, Solder pin length (l): 3.2 mm, tinned, black, Box
Order No.	1043230000
Type	BLL 7.62HP/02/90 3.2SN BK BX
GTIN (EAN)	4032248774708
Qty.	126 items
Product data	IEC: 630 V / 24 A UL: 300 V / 20 A
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	24.5 mm
Height	13.7 mm
Width	14.42 mm
Net weight	3.06 g

Depth (inches)	0.9646 inch
Height (inches)	0.5394 inch
Width (inches)	0.5677 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 7.62HP
Pitch in mm (P)	7.62 mm
Number of poles	2
L1 in inches	0.300 "
Pin series quantity	1
Touch-safe protection acc. to DIN VDE 0470	IP 20
Plugging force/pole, max.	10 N

Type of connection	Board connection
Pitch in inches (P)	0.300 "
L1 in mm	7.62 mm
Number of rows	1
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Can be coded	Yes
Pulling force/pole, max.	7 N

Material data

Insulating material	PA GF
Colour chart (similar)	RAL 9011
Comparative Tracking Index (CTI)	≥ 200
UL 94 flammability rating	V-0
Contact surface	tinned
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
Moisture Level (MSL)	
Contact material	Cu-alloy
Layer structure of solder connection	2...3 µm Ni / 2...4 µm Sn matt
Storage temperature, min.	-40 °C
Operating temperature, min.	-50 °C
Temperature range, installation, min.	-25 °C

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984
Rated current, max. number of poles (Tu=20°C)	24 A
Rated current, max. number of poles (Tu=40°C)	21 A
Rated voltage for surge voltage class / pollution degree III/2	630 V

Rated current, min. number of poles (Tu=20°C)	24 A
Rated current, min. number of poles (Tu=40°C)	24 A
Rated voltage for surge voltage class / pollution degree II/2	630 V
Rated voltage for surge voltage class / pollution degree III/3	400 V

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Technical data

Rated impulse voltage for surge voltage 4 kV class/ pollution degree II/2	
Rated impulse voltage for surge voltage 6 kV class/ contamination degree III/3	
Creepage distance, min.	7.8 mm

Rated impulse voltage for surge voltage 6 kV class/ pollution degree III/2	
Short-time withstand current resistance 3 x 1s with 180 A	
Clearance, min.	7.2 mm

Rated data acc. to CSA

Institute (CSA)	CSA
Rated voltage (Use group B / CSA)	300 V
Rated voltage (Use group D / CSA)	300 V
Rated current (Use group C / CSA)	20 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Certificate No. (CSA)	200039-1121690
Rated voltage (Use group C / CSA)	150 V
Rated current (Use group B / CSA)	20 A
Rated current (Use group D / CSA)	10 A

Rated data acc. to UL 1059

Institute (cURus)	CURUS
Rated voltage (Use group B / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group C / UL 1059)	20 A
Creepage distance, min.	7.8 mm
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Certificate No. (cURus)	E60693
Rated voltage (Use group C / UL 1059)	150 V
Rated current (Use group B / UL 1059)	20 A
Rated current (Use group D / UL 1059)	10 A
Clearance distance, min.	7.2 mm

Packing

Packaging	Box
VPE width	130.00 mm

VPE length	338.00 mm
VPE height	27.00 mm

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 Spacing between rows: see hole layout Rated current related to rated cross-section & min. No. of poles. 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	EC002637
ETIM 10.0	EC002637
ECLASS 15.0	27-46-02-01

ETIM 9.0	EC002637
ECLASS 14.0	27-46-02-01

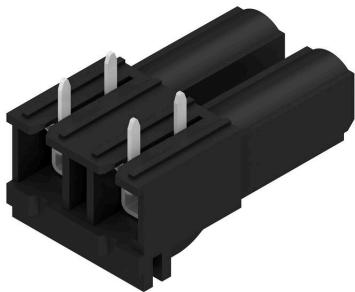
BLL 7.62HP/02/90 3.2SN BK BX

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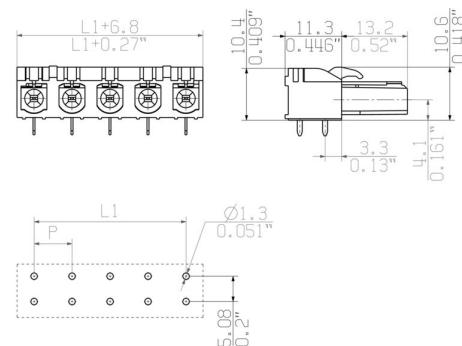
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Drawings

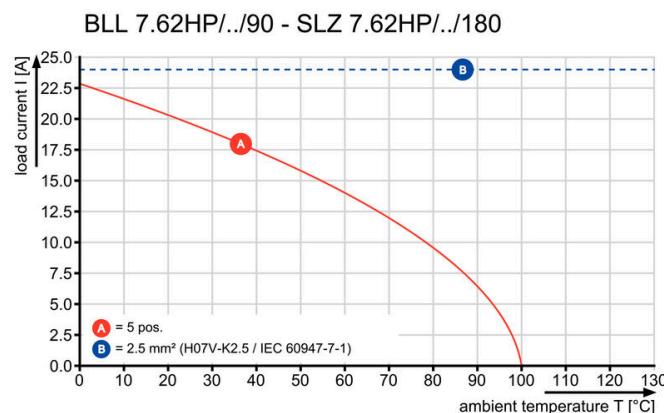
Product image



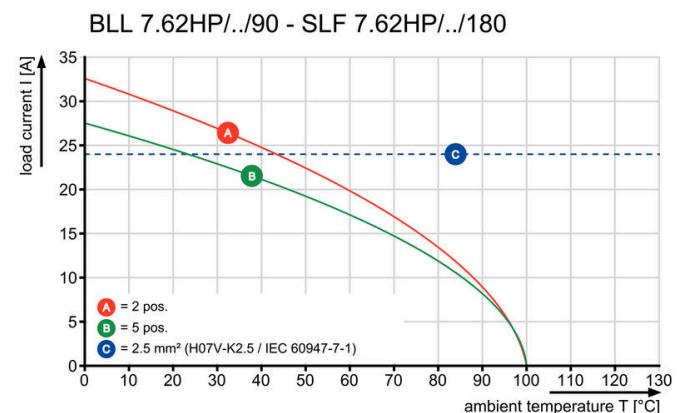
Dimensional drawing



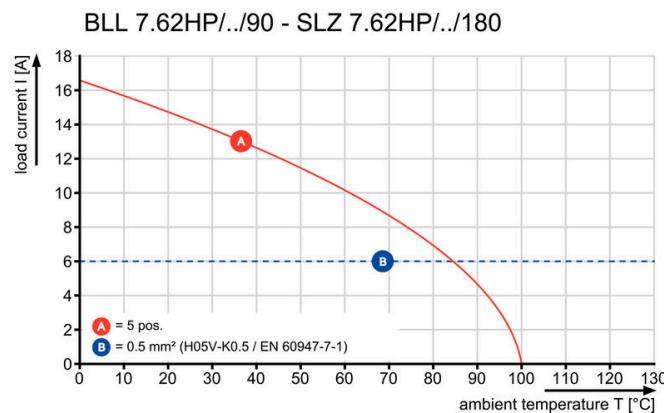
Graph



Graph



Graph



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Accessories**Coding elements**

Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.

Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Type	BLZ/SL KO OR BX	Version
Order No.	1573010000	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190048396	of poles: 1
Qty.	100 ST	
Type	BLZ/SL KO BK BX	Version
Order No.	1545710000	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190087142	of poles: 1
Qty.	50 ST	

BLL 7.62HP/02/90 3.2SN BK BX

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Counterpart**SLF 7.62HP/180G**

180° inverted male header with PUSH-IN connection technology for field wiring in 2.5 mm² 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

Type	SLF 7.62HP/02/180G SN B...	Version
Order No.	1043590000	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 2,
GTIN (EAN)	4032248775163	180°, PUSH IN with actuator, Tension-clamp connection, Clamping
Qty.	126 ST	range, max. : 2.5 mm ² , Box

SLZ 7.62HP/180G

180° inverted male header with clamping yoke connection for field wiring in 2.5 mm² 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 or with release latch.

General ordering data

Type	SLZ 7.62HP/02/180G SN B...	Version
Order No.	1043350000	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 2,
GTIN (EAN)	4032248774920	180°, Clamping yoke connection, Clamping range, max. : 2.5 mm ² ,
Qty.	126 ST	Box