



Klingenbergstraße 26 D-32758 Detmold Germany

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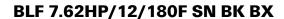


 180° female header with PUSH-IN connection technology for field wiring in $2.5~\text{mm}^2$ with a 7.62 pitch. Meets the requirements as per UL1059 600 V class C and IEC 61800-5-1

Variants: without flange, external flange, release latch.

General ordering data

Version	PCB plug-in connector, female plug, Flange, 7.62 mm, Number of poles: 12, tinned, black, Box
Order No.	<u>1227560000</u>
Туре	BLF 7.62HP/12/180F SN BK BX
GTIN (EAN)	4050118011883
Qty.	18 items
Product data	IEC: 1000 V / 29 A / 0.5 - 2.5 mm ² UL: 600 V / 20 A / AWG 20 - AWG 12
Packaging	Вох





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Technical data

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Approvals	c FL *us
ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	28.1 mm	Depth (inches)	1.1063 inch
Height	15.1 mm	Height (inches)	0.5945 inch
Width	100.42 mm	Width (inches)	3.9535 inch
Net weight	36.69 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	1,745 kg CO2 eq.

System Parameters

Product family	OMNIMATE Power - series BL/SL 7.62HP	Type of connection	Field connection
Wire connection method	PUSH IN with actuator	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Conductor outlet direction	180°
Number of poles	12	L1 in mm	68.58 mm
L1 in inches	2.700 "	Number of rows	1
Pin series quantity	1	Rated cross-section	2.5 mm ²
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Protection degree	IP20	Can be coded	Yes
Stripping length	10 mm	Tightening torque for screw flange, min.	0.15 Nm
Tightening torque for screw flange, max	c. 0.25 Nm	Screwdriver blade	0.6 x 3.5
Plugging cycles	25	Plugging force/pole, max.	8.5 N
Pulling force/pole, max.	6 N		

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 200	Insulation resistance	≥ 108 Ω
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	tinned
Layer structure of plug contact	48 µm Sn hot-dip 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.	0.08 mm ²
Clamping range, max.	2.5 mm ²
Wire connection cross section AWG,	AWG 20
min.	

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Wire connection cross section AWG, max.	AWG 12		
Solid, min. H05(07) V-U	0.5 mm ²		
Solid, max. H05(07) V-U	1.5 mm ²		
Flexible, min. H05(07) V-K	0.5 mm ²		
lexible, max. H05(07) V-K	2.5 mm ²		
v. plastic collar ferrule, DIN 46228 pt nin.	4, 0.5 mm²		
v. plastic collar ferrule, DIN 46228 pt nax.	4, 2.5 mm ²		
v. wire end ferrule, DIN 46228 pt 1, nin.	0.5 mm ²		
v. wire end ferrule, DIN 46228 pt 1, nax.	2.5 mm ²		
llug gauge in accordance with EN 0999 a x b; ø	2.8 mm x 2.0 mm		
lampable conductor	Cross-section for conductor connection	/1	fine-wired
		nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
	The state is a serial s	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 ²
	wire end ferrule	Stripping length	nominal 12 mm
			H0,75/16 W
		Stripping length	nominal 10 mm
			H0,75/10
	Cross-section for conductor connection	Туре	fine-wired
			1 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
			H1,0/16D R
		Stripping length	nominal 10 mm
			H1,0/10
	Cross-section for conductor connection		fine-wired
			1.5 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
	wire one for the		H1,5/10
		Stripping length	nominal 12 mm
			H1,5/16 R
	Cross-section for conductor connection		fine-wired
	G1033-36Ction for conductor confidention		2.5 mm ²
	wire end ferrule		
	wire end letrule	Stripping length Recommended wire- end ferrule	nominal 10 mm H2,5/10
Reference text	The outside diameter of the plastic collar sho		

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Technical data

BLF 7.62HP/12/180F SN BK BX

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles	29 A
toolog god. to standard	120 0000 1 1,120 0 100 1	(Tu=20°C)	2071
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)	23 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
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	8 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
Creepage distance, min.	11.4 mm	Clearance, min.	11.4 mm

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	Вох	VPE length	352.00 mm
VPE width	138.00 mm	VPE height	38.00 mm

Important note

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IPC conformity	Conformity: The products are developed, manufactured and delivered according international
IPC Comorning	, , ,
	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

Notes

- can be evaluated on request.

 Additional variants on request
- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.

 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.
- Crimping shape "A" for wire end ferrules with PZ 6/5 crimping tool recommended.
- 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

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Technical data

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		



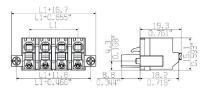
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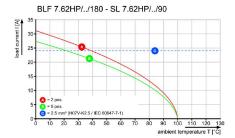
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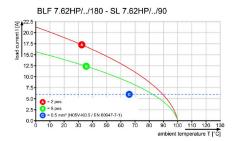
Drawings

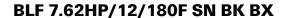
Dimensional drawing



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

Туре	BLZ/SL KO OR BX	Version
Order No.	<u>1573010000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190048396	of poles: 1
Qty.	100 ST	
_	DI 7 (0) 1(0 DI(D)(
Туре	BLZ/SL KO BK BX	Version
Order No.	1545710000	Version PCB plug-in connector, Accessories, Coding element, black, Number
	'	



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Counterpart

SL 7.62HP/180F



Power on board - 100% safety, 100% integration, 100% cost-effectiveness:

The compact, efficient solution for UL-600V applications in the lower performance range.

High-performance male header for applications up to 12 kVA:

- 29 A at 400 V (IEC)
- 20 A at 600 V (UL)
- · Single compartment mating profile

Assisting in device approval:

- Meets the requirements for 600 V according to UL 508 / UL840.
- Meets the increased requirements on touch safety as per IEC68100-5-1 when combined with female header BLZ 7.62 HP

The slimming diet for multiple-stage device series: Reduce the size and cut costs in the high-volume lower performance range without compromising device approval!

Male header, 180° outlet direction, with screw flanges

General ordering data

Туре	SL 7.62HP/12/180F 3.2 S	Version
Order No.	1141080000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248923489	7.62 mm, Number of poles: 12, 180°, Solder pin length (I): 3.2 mm,
Qty.	18 ST	tinned, orange, Box
Туре	SL 7.62HP/12/180F 3.2 S	Version
Type Order No.	SL 7.62HP/12/180F 3.2 S 1140970000	Version PCB plug-in connector, male header, Flange, THT solder connection,
	, ,	

SL 7.62HP/180LF



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The compact, efficient solution for UL-600V applications in the lower performance range.

High-performance male header for applications up to 12 kVA:

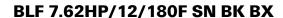
- 29 A at 400 V (IEC)
- 20 A at 600 V (UL)
- Single compartment mating profile

Assisting in device approval:

- Meets the requirements for 600 V according to UL 508 / UL840.
- Meets the increased requirements on touch safety as per IEC68100-5-1 when combined with female header BLZ 7.62 HP

The slimming diet for multiple-stage device series: Reduce the size and cut costs in the high-volume lower performance range without compromising device approval!

Male header, 180° outlet direction, with solder flanges





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Counterpart

General ordering data

Type	SL 7.62HP/12/180LF 3.2	Version
Order No.	1141300000	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248923878	connection, 7.62 mm, Number of poles: 12, 180°, Solder pin length
Qty.	18 ST	(I): 3.2 mm, tinned, orange, Box
Туре	SL 7.62HP/12/180LF 3.2	Version
Type Order No.	SL 7.62HP/12/180LF 3.2 1141190000	Version PCB plug-in connector, male header, Solder flange, THT solder

SL 7.62HP/270LF



Power on board - 100% safety, 100% integration, 100% cost-effectiveness:

The compact, efficient solution for UL-600V applications in the lower performance range up to 12 kVA

- 29 A at 400 V (IEC)
- 20 A at 300 V (UL)
- Single compartment mating profile
- Clamping range: 0.08 4 mm² / AWG 28 12 Assisting in device approval:
- Meets the requirements for 600 V according to UL 508 / UL840.
- Meets the increased requirements on touch safety as per IEC68100-5-1

The slimming diet for multiple-stage device series: Reduce the size and cut costs in the high-volume lower performance range without compromising device approval!

Male header, 270° outlet angle with solder flanges

General ordering data

Туре	SL 7.62HP/12/270LF 3.2S	Version
Order No.	<u>1472470000</u>	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4050118317619	connection, 7.62 mm, Number of poles: 12, 270°, Solder pin length
Qty.	50 ST	(I): 3.2 mm, tinned, black, Box
Туре	CL 7 62HD/12 /270LF 2 2C	$_{M}$.
.,,,,	SL 7.62HP/12/270LF 3.2S	Version
Order No.	1472710000	PCB plug-in connector, male header, Solder flange, THT solder
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Counterpart

SL 7.62HP/90F



Power on board - 100% safety, 100% integration, 100% cost-effectiveness:

The compact, efficient solution for UL-600V applications in the lower performance range up to 12 kVA

- 29 A at 400 V (IEC)
- 20 A at 300 V (UL)
- Single compartment mating profile
- Clamping range: 0.08 4 mm² / AWG 28 12

Assisting in device approval:

- Meets the requirements for 600 V according to UL 508 / UL840.
- Meets the increased requirements on touch safety as per IEC68100-5-1

The slimming diet for multiple-stage device series: Reduce the size and cut costs in the high-volume lower performance range without compromising device approval!

Male header, 90° outlet angle with screw flanges

General ordering data

Туре	SL 7.62HP/12/90F 3.2 SN	Version
Order No.	1124400000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248906529	7.62 mm, Number of poles: 12, 90°, Solder pin length (I): 3.2 mm,
Qty.	18 ST	tinned, orange, Box
Туре	SL 7.62HP/12/90F 3.2 SN	Version
Type Order No.	SL 7.62HP/12/90F 3.2 SN 1124320000	Version PCB plug-in connector, male header, Flange, THT solder connection,
	, ,	