

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

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 12kVA.

- 29 A at 630 V (IEC)
- 20 A at 600 V (UL)
- Single compartment mating profile
- Clamping range: 0.08 4 mm² / AWG 28 12

Assistance with device approval:

- meets the requirements for 600 V in accordance with UL508/UL840
- meets the more stringent touch-safety requirements of IEC68100-5-1

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

General ordering data

Version	PCB plug-in connector, female plug, 7.62 mm,
	Number of poles: 4, 180°, Clamping yoke connection, Clamping range, max. : 4 mm², Box
Order No.	<u>1093450000</u>
Туре	BLZ 7.62HP/04/180LR SN BK BX
GTIN (EAN)	4032248864430
Qty.	35 items
Product data	IEC: 630 V / 29 A / 0.2 - 4 mm ²
	UL: 600 V / 20 A / AWG 20 - AWG 12
Packaging	Вох





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Technical data

Approvals

Approvals		
ROHS	Conform	
UL File Number Search	UL Website	
Certificate No. (cURus)	E60693	

Dimensions and weights

Depth	23.3 mm	Depth (inches)	0.9173 inch
Height	18.3 mm	Height (inches)	0.7205 inch
Width	39.36 mm	Width (inches)	1.5496 inch
Net weight	11.51 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0.170 kg CO2eq.

System Parameters

Product family	OMNIMATE Power - series BL/SL 7.62HP	Type of connection	Field connection
Wire connection method	Clamping yoke connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Conductor outlet direction	180°
Number of poles	4	L1 in mm	22.86 mm
L1 in inches	0.900 "	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	Volume resistance	5.00 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 cycles	25
Plugging force/pole, max.	9.5 N	Pulling force/pole, max.	8.5 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.	4 mm ²
Wire connection cross section AWG, min.	AWG 28
Wire connection cross section AWG, max.	AWG 12

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Technical data

Solid, min. H05(07) V-U	0.2 mm ²		
Solid, max. H05(07) V-U	4 mm ²		
Flexible, min. H05(07) V-K	0.2 mm ²		
Flexible, max. H05(07) V-K	4 mm²		
w. plastic collar ferrule, DIN 46228 pt	4, 0.2 mm ²		
min.			
w. plastic collar ferrule, DIN 46228 pt	4, 2.5 mm ²		
max.			
w. wire end ferrule, DIN 46228 pt 1,	0.2 mm ²		
min.	0.5		
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²		
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	Type fine-wired	
		nominal 0.25 mm ²	
	wire end ferrule	Stripping length nominal 10 mm	
		Recommended wire- H0,25/12 HBL end ferrule	
	Cross-section for conductor connection	Type fine-wired	
		nominal 0.34 mm ²	
	wire end ferrule	Stripping length nominal 10 mm	
		Recommended wire- H0,34/12 TK	
		end ferrule	
	Cross-section for conductor connection	Type fine-wired	
		nominal 0.5 mm ²	
	wire end ferrule	Stripping length nominal 6 mm	
		Recommended wire- H0,5/6 end ferrule	
	Cross-section for conductor connection	Type fine-wired	
		nominal 0.75 mm ²	
	wire end ferrule	Stripping length nominal 6 mm	
		Recommended wire- H0,75/6 end ferrule	
	Cross-section for conductor connection	Type fine-wired	
		nominal 1 mm ²	
	wire end ferrule	Stripping length nominal 6 mm	
	1	Recommended wire- H1,0/6 end ferrule	
	Cross-section for conductor connection	Type fine-wired	
		nominal 1.5 mm²	
	wire end ferrule	Stripping length nominal 7 mm	
		Recommended wire- end ferrule	
	Cross-section for conductor connection	Type fine-wired	
	5.555 SSGROW FOR GOVERNOOR	nominal 2.5 mm ²	
	wire end ferrule	Stripping length nominal 7 mm	
	ond forfulo	Recommended wire- H2.5/7 end ferrule	
Reference text		uld not be larger than the pitch (P), Length of fer	

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

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BLZ 7.62HP/04/180LR SN BK BX

Technical data		www.weidmueller.com	
Rated current, max. number of poles	23 A	Rated voltage for surge voltage class /	630 V
(Tu=40°C)		pollution degree II/2	
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	e 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
Creepage distance, min.	11.3 mm	Clearance, min.	9.8 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			
nateu data acc. to OL 1055			
Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059	
Rated voltage (Use group D / UL 1059)			
		Rated current (Use group B / UL 1059	
Rated current (Use group C / UL 1059)		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	348.00 mm
VPE width	135.00 mm	VPE height	30.00 mm
Type tests			
To at Donahilita of mondings	Ctondond	DIN FN 01004	7.0.0 / 00.00 tables
Test: Durability of markings	Standard		ion 7.3.2 / 09.02 taking 60068-2-70 / 07.96
	Test mark of origin, type i material, date clock		identification, pitch, type of
	Evaluation	available	
	Test	durability	
	Evaluation		
Test: Misengagement (Non-	Standard	•	ion 6.3 and 6.9.1 / 09.02
interchangeability)			
,,	Test 180° turned with coding elements Evaluation passed		ding elements
	Evaluation passed Test 180° turned without coding elements		t coding elements
			county elements
Test: Clampable cross section	Evaluation Standard	passed DIN EN 60999-1 se EN 60947-1 section	ction 7 and 9.1 / 12.00, DIN
	Conductor type	Type of conductor and conductor crossection Type of conductor	solid 0.5 mm ²
		and conductor cros	

Catalogue status / Drawings 4

and conductor cross-

and conductor cross-

solid 2.5 mm²

Type of conductor

section

section

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BLZ 7.62HP/04/180LR SN BK BX

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Technical data

		Type of conductor stranded 2.5 mm and conductor cross-section
		Type of conductor AWG 20/1 and conductor cross-section
		Type of conductor AWG 20/19 and conductor cross-section
		Type of conductor AWG 12/1 and conductor cross-section
		Type of conductor AWG 12/19 and conductor cross-section
	Evaluation	passed
st for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00
sening of conductors	Requirement	0.2 kg
Ü	Conductor type	Type of conductor AWG 28/1 and conductor cross-section
		Type of conductor AWG 28/19 and conductor cross-section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor H05V-U0.5 and conductor cross- section
		Type of conductor H05V-K0.5 and conductor cross-section
	Evaluation	passed
	Requirement	0.7 kg
	Conductor type	Type of conductor AWG 14/1 and conductor cross-section
		Type of conductor AWG 14/19 and conductor cross-section
	Evaluation	passed
	Requirement	0.9 kg
	Conductor type	Type of conductor H07V-U4.0 and conductor cross-section
		Type of conductor H07V-K4.0 and conductor cross-section
	Evaluation	passed
ll-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥5 N
	Conductor type	Type of conductor AWG 28/1 and conductor cross-section
		Type of conductor AWG 28/19 and conductor cross-section
	Evaluation	passed
	Requirement	≥20 N
	Conductor type	Type of conductor H05V-U0.5 and conductor cross- section



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Technical data

Evaluation	Type of conductor and conductor cross-section passed	H05V-K0.5
Requirement	≥50 N	
Conductor type	Type of conductor and conductor cross-section	AWG 14/1
	Type of conductor and conductor cross-section	AWG 14/19
	Type of conductor and conductor cross-section	H07V-K4.0
Evaluation	passed	
Requirement	≥60 N	
Conductor type	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

- · 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 $^{\circ}$ C and maximum humidity 70%, 36 months

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 9.0	27-44-03-09
ECLASS 9.1	27-44-03-09	ECLASS 10.0	27-44-03-09
ECLASS 11.0	27-46-02-02	ECLASS 12.0	27-46-02-02
ECLASS 13.0	27-46-02-02	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		





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Drawings	www.weidmueller.com
Product image	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	
Туре	BLZ/SL KO BK BX	Version
Type Order No.	BLZ/SL KO BK BX 1545710000	Version PCB plug-in connector, Accessories, Coding element, black, Number
• •	,	

Slotted screwdriver

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Туре	SDS 0.6X3.5X100	Version
Order No.	9008330000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056286	
Qty.	1 ST	
T	0DIO 0 0W0 FW400	
Туре	SDIS 0.6X3.5X100	Version
Order No.	9008390000	Version Screwdriver, Screwdriver





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Accessories

Crimping tools

Crimping tools for wire end ferrules, with and without plastic collars

- Ratchet guarantees precise crimping
- Release option in the event of incorrect operation

General ordering data

Туре		PZ 6/5	Version
Orde	r No.	9011460000	Pressing tool, Crimping tool for wire-end ferrules, 0.25mm², 6mm²,
GTIN	(EAN)	4008190165352	Trapezoidal indentation crimp
Qty.		1 ST	



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Counterpart

SL 7.62HP/180F

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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 screw flanges

General ordering data

Туре	SL 7.62HP/04/180F 3.2 S	Version
Order No.	1140890000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248923373	7.62 mm, Number of poles: 4, 180°, Solder pin length (I): 3.2 mm,
Qty.	42 ST	tinned, black, Box
Туре	SL 7.62HP/04/180F 3.2 S	Version
Type Order No.	SL 7.62HP/04/180F 3.2 S 1141000000	Version PCB plug-in connector, male header, Flange, THT solder connection,
	, ,	

SL 7.62HP/180LF

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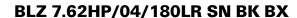
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Male header, 180° outlet direction, with solder flanges

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Counterpart

General ordering data

Туре	SL 7.62HP/04/180LF 3.2	Version
Order No.	1141110000	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248923762	connection, 7.62 mm, Number of poles: 4, 180°, Solder pin length (I):
Qty.	42 ST	3.2 mm, tinned, black, Box
Туре	SL 7.62HP/04/180LF 3.2	Version
Type Order No.	SL 7.62HP/04/180LF 3.2 1141220000	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:

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- 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/04/270LF 3.2S	Version
Order No.	1472380000	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4050118317534	connection, 7.62 mm, Number of poles: 4, 270°, Solder pin length (I):
Qty.	100 ST	3.2 mm, tinned, black, Box
Туре	SL 7.62HP/04/270LF 3.2S	Version
Type Order No.	SL 7.62HP/04/270LF 3.2S 1472630000	Version PCB plug-in connector, male header, Solder flange, THT solder
	, ,	

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Counterpart

SL 7.62HP/90F

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- 20 A at 300 V (UL)
- Single compartment mating profile
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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

Type	SL 7.62HP/04/90F 3.2 SN	Version
Order No.	1026870000	PCB plug-in connector, male header, Flange, THT solder connection,
GTIN (EAN)	4032248752362	7.62 mm, Number of poles: 4, 90°, Solder pin length (I): 3.2 mm,
Qty.	42 ST	tinned, black, Box
Туре	SL 7.62HP/04/90F 3.2 SN	Version
Order No.	1026830000	PCB plug-in connector, male header, Flange, THT solder connection,
OTINI (FANI)		
GTIN (EAN)	4032248752324	7.62 mm, Number of poles: 4, 90°, Solder pin length (I): 3.2 mm,

SL 7.62HP/90LF

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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!

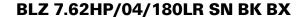
Male header, 90° outlet angle with solder flanges

General ordering data

Туре	SL 7.62HP/04/90LF 3.2 S	Version
Order No.	<u>1095940000</u>	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248957477	connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (I):
Qty.	42 ST	3.2 mm, tinned, black, Box

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Counterpart

Туре	SL 7.62HP/04/90LF 3.2 S	Version
Order No.	1096050000	PCB plug-in connector, male header, Solder flange, THT solder
GTIN (EAN)	4032248960156	connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (I):
Qty.	42 ST	3.2 mm, tinned, orange, Box

SLZ 7.62HP/180LR

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

Туре	SLZ 7.62HP/04/180LR SN	Version
Order No.	1043530000	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4,
GTIN (EAN)	4032248775101	180°, Clamping yoke connection, Clamping range, max. : 2.5 mm²,
Qty.	42 ST	Вох
Type	SLZ 7.62HP/04/180LR SN	Version
Type Order No.	SLZ 7.62HP/04/180LR SN 1043490000	Version PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4,