



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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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

Version	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 3, 180°, PUSH IN with actuator, Tension-clamp connection, Clamping range, max.: 2.5 mm², Box
Order No.	<u>1043600000</u>
Туре	SLF 7.62HP/03/180G SN BK BX
GTIN (EAN)	4032248775170
Qty.	84 items
Product data	IEC: 1000 V / 24 A / 0.5 - 2.5 mm ² UL: 600 V / 20 A / AWG 20 - AWG 12
Packaging	Вох





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Technical data

Approvals

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ROHS	Conform
UL File Number Search	<u>UL Website</u>
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	22.24 mm	Width (inches)	0.8756 inch
Net weight	8.76 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	3	L1 in mm	15.24 mm
L1 in inches	0.600 "	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
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	Illa
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	23 μm Ni / 24 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 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 14		
Solid, min. H05(07) V-U	0.5 mm ²		
Solid, max. H05(07) V-U	2.5 mm ²		
Flexible, min. H05(07) V-K	0.5 mm ²		
Flexible, max. H05(07) V-K	2.5 mm ²		
w. plastic collar ferrule, DIN 46228 pt min.	4, 0.5 mm²		
w. plastic collar ferrule, DIN 46228 pt max.	4, 1.5 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm²		
w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm²		
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	Туре	fine-wired
		nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-	H0,5/16 OR
		end ferrule	
		Stripping length	nominal 10 mm
		Recommended wire- end ferrule	H0,5/10
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.75 mm ²
	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	Туре	fine-wired
		nominal	1 mm ²
	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	Туре	fine-wired
		nominal	1.5 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H1,5/16 R
		Stripping length	nominal 10 mm
		Recommended wire-	H1,5/10
Reference text	The outside diameter of the plastic collar should		itch (P). Length of ferrules

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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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.	10.7 mm	Clearance, min.	10.7 mm

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690
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
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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	Box	VPE length	352.00 mm
VPE width	135.00 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 / 0			
	Test	mark of origin, type identification, pitch,		
		durability, type of material, date clock, approva 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	Type of conductor solid 0.5 mm ²		
		and conductor cross- section		
		Type of conductor stranded 0.5 mm ²		
		and conductor cross-		
		section		
		Type of conductor solid 1.5 mm ²		
		and conductor cross- section		
		Type of conductor stranded 2.5 mm ²		
		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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		Type of conductor AWG 20/19 and conductor cross-section
		Type of conductor AWG 20/1 and conductor cross-section
		Type of conductor AWG 12/19 and conductor cross-section
		Type of conductor AWG 14/1 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	0.3 kg
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section
		Type of conductor H05V-K0.5 and conductor cross-section
		Type of conductor AWG 20/1 and conductor cross-section
		Type of conductor AWG 20/19 and conductor cross-section
	Evaluation	passed
	Requirement	0.4 kg
	Conductor type	Type of conductor H07V-U1.5 and conductor cross-section
	Evaluation	passed
	Requirement	0.7 kg
	Conductor type	Type of conductor H07V-K2.5 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 AWG 12/19 and conductor cross-section
	Evaluation	passed
ıll-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥20 N
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section
		Type of conductor H05V-K0.5 and conductor cross-section
		Type of conductor AWG 20/1 and conductor cross-section
		Type of conductor AWG 20/19 and conductor cross-section
	Evaluation	passed
	Requirement	≥40 N



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Technical data

Conductor type	Type of conductor H07V-U1.5 and conductor cross-section	
Evaluation	passed	
Requirement	≥50 N	
Conductor type	Type of conductor H07V-K2.5 and conductor cross-section	
	Type of conductor AWG 14/19 and conductor cross-section	
Evaluation	passed	
Requirement	≥60 N	
Conductor type	Type of conductor AWG 12/19 and conductor cross-section	
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
- \bullet Long term storage of the product with average temperature of 50 °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 ECLASS 14.0 27-46-02-02				
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	ETIM 6.0	EC002638	ETIM 7.0	EC002638
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	ETIM 8.0	EC002638	ETIM 9.0	EC002638
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	ETIM 10.0	EC002638	ECLASS 9.0	27-44-03-09
ECLASS 13.0 27-46-02-02 ECLASS 14.0 27-46-02-02	ECLASS 9.1	27-44-03-09	ECLASS 10.0	27-44-03-09
<u> </u>	ECLASS 11.0	27-46-02-02	ECLASS 12.0	27-46-02-02
ECLASS 15.0 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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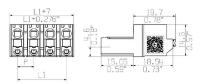
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Drawings

Product image



Dimensional drawing



Graph Graph

