

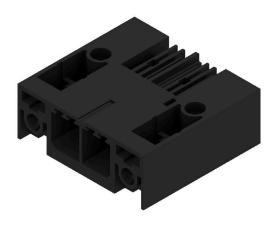


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















OMNIMATE Power BV / SV 7.62HP - the 28 kVA performance class

Tailor-made solutions for high performers
More power reserves for higher load bearing capacity:
The OMNIMATE Power BV / SV 7.62HP is the middle-class of the power connector systems. It has a large
clamping capacity, high overload resistance and the
largest range of variants and accessories to choose from:
the high performer of the HP range. HP means High Performance – this performance covers a great deal: the
full rated current up to 50°C without derating, unlimited
600-V approval according to UL, and the additional finger
safety for 400 V-TN systems (+ 3.0 mm) in compliance
with the application directive IEC 61800-5-1.

General ordering data

Version	PCB plug-in connector, male header, Flange, THT/ THR solder connection, 7.62 mm, Number of poles: 2, 90°, Solder pin length (I): 2.6 mm, tinned, black, Box
Order No.	<u>2499520000</u>
Гуре	SV-SMT 7.62HP/02/90F 2.6SN BK BX
GTIN (EAN)	4050118512878
Qty.	60 items
Product data	IEC: 1000 V / 41 A UL: 300 V / 40.5 A
Packaging	Вох

Catalogue status / Drawings



SV-SMT 7.62HP/02/90F 2.6SN BK BX



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Technical data

Approvals

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

Dimensions and weights

Depth	28.3 mm	Depth (inches)	1.1142 inch
Height	14 mm	Height (inches)	0.5512 inch
Height of lowest version	11.4 mm	Width	30.48 mm
Width (inches)	1.2 inch	Net weight	4.2 g

Environmental Product Compliance

Compliant without exemption
No SVHC above 0.1 wt%

System specifications

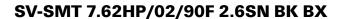
Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Outgoing elbow	90°
Number of poles	2	Number of solder pins per pole	2
Solder pin length (I)	2.6 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	0.8 x 1.0 mm	Solder eyelet hole diameter (D)	1.4 mm
Solder eyelet hole diameter tolerance (I	D)+ 0,1 mm	L1 in mm	7.62 mm
L1 in inches	0.300 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	safe to back of hand above the printed circuit board
Touch-safe protection acc. to DIN VDE 0470	IP 20	Protection degree	IP20, when fully mounted
Volume resistance	2.00 mΩ	Plugging cycles	25
Plugging force/pole, max.	12 N	Pulling force/pole, max.	7 N

Material data

Insulating material	PA 9T	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Insulation resistance	≥ 10 ⁸ Ω
Moisture Level (MSL)	1	UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	tinned
Layer structure of solder connection	13 μm Ni / 46 μm Sn matt	Layer structure of plug contact	13 μm Ni / 46 μm Sn matt
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	130 °C
Temperature range, installation, min.	-25 ℃	Temperature range, installation, max.	130 °C

Catalogue status / Drawings 2







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Technical data

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tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles	41 A
tested acc. to standard	1EC 00004-1, IEC 01984	(Tu=20°C)	41A
Rated current, max. number of poles (Tu=20°C)	41 A	Rated current, min. number of poles (Tu=40°C)	41 A
Rated current, max. number of poles (Tu=40°C)	41 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	630 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	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Short-time withstand current resistance	3 x 1s with 420 A
Creepage distance, min.	9.6 mm	Clearance, min.	6.9 mm

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	300 V	Rated current (Use group B / UL 1059)	40.5 A
Rated current (Use group C / UL 1059)	40.5 A	Rated current (Use group D / UL 1059)	10 A
Creepage distance, min.	9.6 mm	Clearance distance, min.	6.9 mm
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	350.00 mm
VPE width	135.00 mm	VPE height	40.00 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	 Additional variants on request 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 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-46-02-01	ECLASS 12.0	27-46-02-01
ECLASS 13.0	27-46-02-01	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		

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Drawings

Product image



Dimensional drawing

