

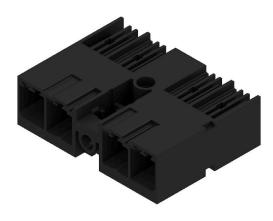


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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OMNIMATE Power for IT networks - scalable to 50 kVA Tailor-made solutions for special requirements More standard-compliance means fewer compromises: OMNIMATE Power for IT networks has integrated features incorporated as standard across the range. This makes the design-in and approvals process simpler and makes them safer and more reliable in operation. Results for the application and advantages for the user: unlimited use in 400-V IT systems and touch safety according to IEC 61800-5-1 (+ 5.5 mm). The self-snapping one-handed safety flange enables intuitive and safe usage. Operational reliability is guaranteed by the automatic interlock feature during the plug-in process. In conclusion: You need no additional device covering. The application-oriented design means that no compromises are necessary during the approval process.

General ordering data

Version	PCB plug-in connector, male header, Middle
	flange, THT/THR solder connection, 7.62 mm,
	Number of poles: 4, 90°, Solder pin length (I): 2.6
	mm, tinned, black, Tape
Order No.	<u>2536580000</u>
Туре	SV-SMT 7.62IT/04/90MF3 2.6SN BK RL
GTIN (EAN)	4050118548631
Qty.	110 items
Product data	IEC: 1000 V / 41 A
	UL: 300 V / 40.5 A
Packaging	Tape





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Technical data

Apı	prova	als
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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	28.3 mm	Depth (inches)	1.1142 inch
Height	14 mm	Height (inches)	0.5512 inch
Height of lowest version	11.4 mm	Width	38.1 mm
Width (inches)	1.5 inch	Net weight	8.1 g

Environmental Product Compliance

Compliant without exemption	
No SVHC above 0.1 wt%	
	and the second s

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	4	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	30.48 mm
L1 in inches	1.200 "	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 °C	Temperature range, installation, max.	130 °C







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Technical data

Rated	data	200	40	IEC
BATEC	пата	acc.	TO	IEL.

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	41 A
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	Tape	VPE length	330.00 mm
VPE width	330.00 mm	VPE height	64.00 mm
Tape depth (T2)	15.80 mm	Tape width (W)	56 mm
Tape pocket depth (K0)	15.30 mm	Tape pocket height (A0)	28.40 mm
Tape pocket width (B0)	39.06 mm	Tape pocket separation (P1)	36.00 mm
Tape hole separation (E)	1.75 mm	Tape pocket separation (F)	26.20 mm
Tape reel diameter Ø (A)	330 mm	Surface resistance	$Rs = 109 - 1012 \Omega$

Important note

important note	
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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

Creation date 04.11.2025 07:21:49 MEZ





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Technical data

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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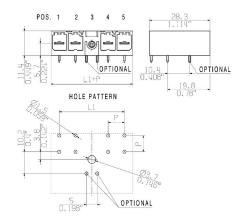
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Drawings

Product image





Weidmüller **₹**

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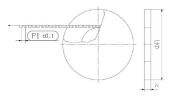
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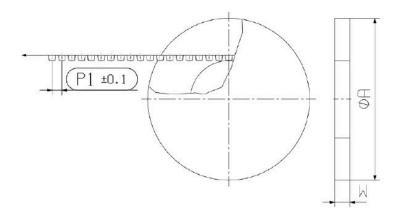
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Drawings

Dimensional drawing



Dimensional drawing





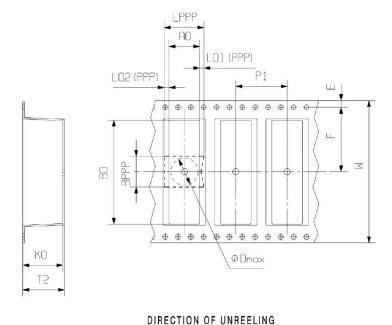
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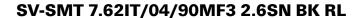
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Drawings

Dimensional drawing







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Accessories

Coding elements



The pluggable connections for power electronics - optimised for modern drive technologies, e.g. motor starters, frequency converters and servo-controllers. OMNIMATE Power sets the new standard – with increased safety and innovative solutions such as the pluggable shield, integrated signal contacts and one-handed operation.

The three product lines offer you further advantages:

- Application-oriented scalability: from the compact 4 mm² connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm² connector for 76 A (IEC) or 54 A (UL)
- Unlimited usage up to 1,000 V (IEC) or 600 V (UL)
- A variety of application optimised mounting options Our service:

Design your individual connectors simply by using the product configurator.

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General ordering data

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Тур	e	BV/SV 7.62HP KO	Version
Ord	ler No.	<u>1937590000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
GTI	N (EAN)	4032248608881	of poles: 1
Qty	١.	50 ST	