

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com





270° male header with 7.62 pitch for 400 V IT power networks according to IEC 61800-5-1.

UL approval as per UL840 600 V.

Meets the extended requirements on 5.5 mm touch safety for IT power networks as per IEC 61800-5-1 for 400 V to earth when combined with female header BVZ 7.62 IT

Without a female header, the mating profile guarantees minimum touch safety of >3 mm with 20 N pressure on the test finger.

General ordering data

Version	PCB plug-in connector, male header, THT solder connection, 7.62 mm, Number of poles: 2, 270°, Solder pin length (I): 3.5 mm, black
Order No.	2629980000
Туре	SV 7.62IT/02/270MSF2 3.5SN BK BX SO
GTIN (EAN)	4050118633603
Qty.	78 pc(s).
Product data	UL: / 40.5 A

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Technical data

Dimensions and weights

Net weight	0 g			
System specifications				
Dur durch formille	ONANIINAATE Davida	Torrestan		
Product family	OMNIMATE Power - series BV/SV 7.62IT	Type of connection	Board connection	
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	7.62 mm	
Pitch in inches (P)	0.3 inch	Outgoing elbow	270°	
Number of poles	2	Solder pin length (I)	3.5 mm	
Solder pin length tolerance	+0.1 / -0.3 mm	Solder pin dimensions	0.8 x 1.0 mm	
Solder eyelet hole diameter (D)	1.3 mm	L1 in mm	15.24 mm	
L1 in inches	0.6 inch	Pin series quantity	1	
	tening torque for screw flange, min. 0.2 Nm Tightening torque for screw flange, max. 0.3 Nm			
Tightening torque for screw flange, m	in. U.2 Nm	lightening torque for screw flange, ma	x. U.3 Nm	
	black		RAL 9011	
Material data		Colour chart (similar) Layer structure of plug contact		
Material data Colour	black 13 μm Ni / 46 μm Sn	Colour chart (similar)	RAL 9011 13 µm Ni / 46 µm Sn	
Material data Colour Layer structure of solder connection	black 13 μm Ni / 46 μm Sn matt	Colour chart (similar) Layer structure of plug contact	RAL 9011 13 µm Ni / 46 µm Sn matt	
Material data Colour Layer structure of solder connection Storage temperature, min.	black 13 μm Ni / 46 μm Sn matt -40 °C	Colour chart (similar) Layer structure of plug contact Storage temperature, max.	RAL 9011 13 µm Ni / 46 µm Sr matt 70°C	
Material data Colour Layer structure of solder connection Storage temperature, min. Operating temperature, min.	black 13 μm Ni / 46 μm Sn matt -40 °C -50 °C	Colour chart (similar) Layer structure of plug contact Storage temperature, max. Operating temperature, max.	RAL 9011 13 µm Ni / 46 µm Sn matt 70 °C 130 °C	

Kated	data	acc.	to	UL	1059
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Rated current (Use group B / UL 10	059) 40.5 A	Rated current (Use group C / UL 1059	9) 40.5 A
Clearance distance, min.	6.9 mm	Creepage distance, min.	9.6 mm

Packing

VPE length	0	VPE width	0	
VPE height	0			

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	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		



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Catalogues

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 propertie in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
Notes	Additional colours 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.
	 MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3
	 Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Catalogues in PDF-format



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Mating connector (fully pluggable)

BVZ 7.72IT 180MSF SN



180° female plug with a 7.62 pitch for IT power networks. Meets the requirements of UL1059 600 V class C. In combination with male header SV 7.62 IT.. with leading contact.

Meets the extended requirements on 5.5 mm touch safety for IT power networks as per IEC 61800-5-1 for 400 V to earth.

The self-locking (optionally also screwable) middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

On request also available without middle flange interlock.

General ordering data

Туре	BVZ 7.62IT/02/180MSF2 S	Version	Product data	Packaging
Order No.	2629720000	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 2,	IEC: 1000 V / 41 A / 0.2 - 10 mm ²	Box
GTIN (EAN)	4050118633702 180°, Clamping yoke connection, Clamping range, max. : 10 mm², BoxUL: 600 V / 40.5 A / AWG 24 - AWG			
Qty.	52 pc(s).		8	



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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

General ordering data

Туре	BV/SV 7.62HP KO	Version	Product data	Packaging
Order No.	<u>1937590000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4032248608881	of poles: 1		
Qty.	50 pc(s).			



Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16 D-32758 Detmold Germany

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.