



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















1

Double-row high-current, high-performance pin headers, with or without flange, for fast, tool-free locking. Optimised for "book-size modules" measuring 50mm wide and above. With integrated mounting option for mounting to the housing wall. Exceptional reliability and operational safety thanks to 100% failsafe mating profile, unique coding and optional additional screw mounting in the flange.

General ordering data

PCB plug-in connector, male header, closed side, THT solder connection, 7.62 mm, Number of poles: 4, 270°, Solder pin length (I): 4.5 mm, tinned, black, Box
<u>2431410000</u>
SVD 7.62HP/04/270G 4.5SN BK BX
4050118462647
60 items
IEC: 1000 V / 47 A UL: 300 V / 30 A
Вох

Catalogue status / Drawings



SVD 7.62HP/04/270G 4.5SN BK BX



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Λ	_			_	۱.
Ap	μ	rυ	v	a	ıs

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

Dimensions and weights

Depth	48.9 mm	Depth (inches)	1.9252 inch
Height	43.2 mm	Height (inches)	1.7008 inch
Height of lowest version	38.7 mm	Width	30.48 mm
Width (inches)	1.2 inch	Net weight	24.2 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 solder connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Outgoing elbow	270°
Number of poles	4	Number of solder pins per pole	3
Solder pin length (I)	4.5 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	0.8 x 1.0 mm	Solder pin dimensions = d tolerance	+0.1 / -0.1 mm
Solder eyelet hole diameter (D)	1.4 mm	Solder eyelet hole diameter tolerance (D)+ 0,1 mm	
L1 in mm	7.62 mm	L1 in inches	0.300 "
Number of rows	2	Pin series quantity	2
Touch-safe protection acc. to DIN VDE 57 106	Touch-safe above the printed circuit board	Touch-safe protection acc. to DIN VDE 0470	IP 20
Protection degree	IP20, when fully mounted	Volume resistance	≤2 mΩ
Can be coded	Yes	Plugging cycles	25

Material data

PA GF	Colour	black
RAL 9011	Insulating material group	I
≥ 600	Moisture Level (MSL)	
V-0	Contact material	Cu-alloy
tinned	Tinning type	matt
13 μm Ni / 48 μm Sn matt	Layer structure of plug contact	48 µm Sn matt
-40 °C	Storage temperature, max.	70 °C
-50 °C	Operating temperature, max.	120 °C
-25 °C	Temperature range, installation, max.	120 °C
	RAL 9011 ≥ 600 V-0 tinned 13 µm Ni / 48 µm Sn matt -40 °C -50 °C	RAL 9011 ≥ 600 V-0 Contact material tinned 13 μm Ni / 48 μm Sn matt -40 °C -50 °C Insulating material group Moisture Level (MSL) Contact material Tinning type Layer structure of plug contact Storage temperature, max. Operating temperature, max.

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	47 A
Rated current, max. number of poles (Tu=20°C)	47 A	Rated current, min. number of poles (Tu=40°C)	42 A

Creation date 30.11.2025 10:13:59 MEZ

Catalogue status / Drawings 2







Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Rated current, max. number of poles (Tu=40°C)	42 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 mit 192 A
Creepage distance, min.	9.6 mm	Clearance, min.	6.9 mm

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	300 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group D / CSA)	5 A

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)	600 V	Rated current (Use group B / UL 1059)	30 A
Rated current (Use group C / UL 1059)	30 A	Rated current (Use group D / UL 1059)	5 A
Reference to approval values	Specifications are maximum values, details -		

Packing

Packaging	Box	VPE length	338.00 mm
VPE width	130.00 mm	VPE height	33.00 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
- \bullet 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		

Catalogue status / Drawings

SVD 7.62HP/04/270G 4.5SN BK BX



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

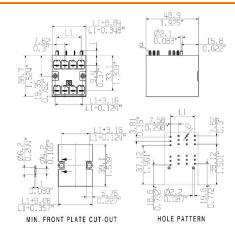
www.weidmueller.com

Drawings

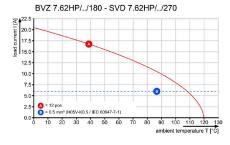
Product image



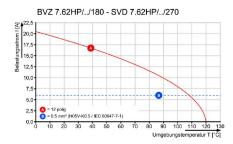
Dimensional drawing



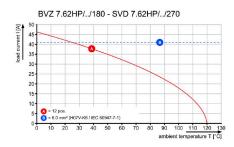
Graph



Graph

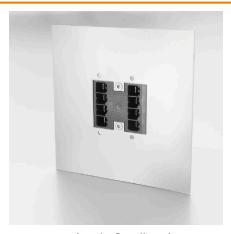


Graph



High component densitySmall and compact pitch

Product benefits



High component densitySmall and compact pitch

4

SVD 7.62HP/04/270G 4.5SN BK BX



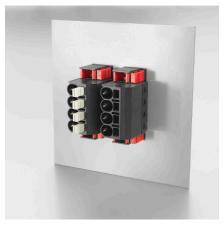
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings

Product benefits



High component densitySmall and compact pitch

Product benefits



Space-saving power male headerThrough PUSH IN connection system