

SVD 7.62HP/06/270G 3.2SN BK BX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

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

Version	PCB plug-in connector, male header, closed side, THT solder connection, 7.62 mm, Number of poles: 6, 270°, Solder pin length (l): 3.2 mm, tinned, black, Box
Order No.	1543310000
Type	SVD 7.62HP/06/270G 3.2SN BK BX
GTIN (EAN)	4050118348354
Qty.	42 pc(s).
Product data	IEC: 1000 V / 47 A UL: 300 V / 30 A
Packaging	Box

Creation date May 19, 2024 5:34:01 PM CEST

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Technical data

Dimensions and weights

Depth	48.9 mm	Depth (inches)	1.925 inch
Height	41.9 mm	Height (inches)	1.65 inch
Height of lowest version	38.7 mm	Width	45.72 mm
Width (inches)	1.8 inch	Net weight	28.8 g

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)	0.3 "	Outgoing elbow	270°
Number of poles	6	Number of solder pins per pole	3
Solder pin length (l)	3.2 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	15.24 mm	L1 in inches	0.6 "
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

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	tinned
Tinning type	matt	Layer structure of solder connection	1...3 µm Ni / 4...8 µm Sn matt
Layer structure of plug contact	4...8 µm Sn matt	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	120 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	120 °C		

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
Rated current, max. number of poles (Tu=40°C)	42 A	Rated voltage for surge voltage class / pollution degree II/2	1,000 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 1 s mit 192 A
Clearance, min.	6.9 mm	Creepage distance, min.	9.6 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

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Technical data**Rated data acc. to UL 1059**

Institute (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 - see approval certificate.

Packing

Packaging	Box	VPE length	352 mm
VPE width	137 mm	VPE height	61 mm

Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	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

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

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

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Technical data

Downloads

Approval/Certificate/Document of Con- formity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL HEATING ELECTR EN FL APPL_INVERTER EN FL_BASE_STATION_EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN

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BVZ 7.62HP../180 - SVD 7.62HP../270

load current I [A]

ambient temperature T [°C]

A = 12 pos.
B = 0.5 mm² (H05V-K0.5 / IEC 60947-7-1)

Ambient Temperature T [°C]	Load Current I [A]	Notes
0	20.0	Start of curve
38	17.0	Point A (12 pos.)
88	6.0	Point B (0.5 mm²)
120	0.0	End of curve

BVZ 7.62HP../180 - SVD 7.62HP../270

Y-axis: Belastungsstrom I [A]
X-axis: Umgebungstemperatur T [°C]

Legend:
 A = 12 polig
 B = 0.5 mm² (H05V-K0.5 / IEC 60947-7-1)

Umgebungstemperatur T [°C]	Belastungsstrom I [A] (Red Curve)	Belastungsstrom I [A] (Blue Curve)
0	20.0	-
38	16.5 (Point A)	-
88	-	6.3 (Point B)
120	-	0.0

Graph showing load current I [A] versus ambient temperature T [°C] for the device BVZ 7.62HP../180 - SVD 7.62HP../270.

The graph illustrates the maximum load current capacity (red curve) and the operating point (blue circle B) relative to the ambient temperature. A horizontal dashed line indicates the load current level at point B.

Legend:

- A = 12 pos.
- B = 6.0 mm² (H07V-K6 / IEC 60947-7-1)

Ambient Temperature T [°C]	Load Current I [A]	Point
~38	~38	A
~85	41	B

A white, square, wall-mounted network switch. It features four RJ45 ports on the left and two SFP ports on the right. The device is mounted on a white wall, and its shadow is cast on the surface below it.

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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

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

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Drawings

Product benefits



High component density
Small and compact pitch

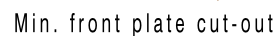
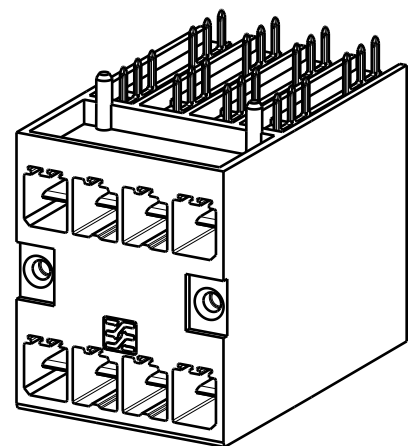
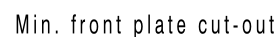
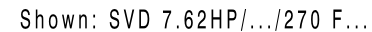
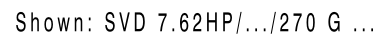
Product benefits



Space-saving power male header
Through PUSH IN connection system

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[illegible]

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

$$D = \frac{0.8 \times 1.0}{0.031 \times 0.039} = 0.14 + 0.1$$

4.5	0.177
3.2	0.126
l	l
[mm]	[inch]

	12	38.10	1.5
	10	30.48	1.2
	8	22.86	0.9
	6	15.24	0.6
	4	7.62	0.3
n	Polzahl Poles	L1 [mm]	L1 [inch]

General tolerance: DIN ISO 2768-mK 	106919/0 02.08.18 HELIS_MA 00		Weidmüller 		Cat.no.: .	
	Modification				3 59413 08 Drawing no. Issue no. Sheet 03 of 06 sheets	
		Date	Name	SVD 7.62HP/.../270... STIFTELSTE MALE HEADER		
Drawn		18.09.2014 FRIELING_L				
Responsible		WRIGHT_ST				
Scale: 1/1		Checked 03.08.2018 HELIS_MA				
Supersedes: .	Approved	NOLTE S	Product file: SVD 7.62HP 7400			

Recommended wave soldering profiles

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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.

We reserve the right to make technical changes.