

**SV 7.62HP/04/270G SC/04R SN DKG Y BX CO1**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

**Product image**


Similar to illustration

Combined 270° male header with power and signal contacts incl. self-locking middle flange interlock with a 7.62 pitch.

Enables simultaneous connection of power, signals and (optional) EMC shielding. Ideal for connecting servo and asynchronous drives.

Meets the requirements of IEC 61800-5-1 and enables UL approval as per UL840 600 V when combined with female header BVF 7.62HP/...BCF..R...

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

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

Optionally on request: without flange fastening, with additional screw mount or with soldered flange fastening.

**General ordering data**

Version	PCB plug-in connector, male header, closed side, THT solder connection, 7.62 mm, Number of poles: 4, 270°, Solder pin length (l): 3.5 mm, tinned, Basalt grey, Box
Order No.	<a href="#">2454010000</a>
Type	SV 7.62HP/04/270G SC/04R SN DKG Y BX CO1
GTIN (EAN)	4050118468717
Qty.	48 items
Product data	IEC: 1000 V / 41 A UL: 300 V / 35 A
Packaging	Box

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## Technical data

## Approvals

Approvals



UL File Number Search [UL Website](#)  
Certificate No. (cURus) E60693

## Dimensions and weights

Depth	28.3 mm	Depth (inches)	1.1142 inch
Height	14.9 mm	Height (inches)	0.5866 inch
Height of lowest version	11.4 mm	Width	39.07 mm
Width (inches)	1.5382 inch	Net weight	8.4 g

## Environmental Product Compliance

RoHS Compliance Status Compliant without exemption  
REACH SVHC 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	2
Solder pin length (l)	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)	1.4 mm
Solder eyelet hole diameter tolerance (D)	+ 0,1 mm	L1 in mm	22.86 mm
L1 in inches	0.900 "	L2 in mm	3.81 mm
L2 in inch	0.150 "	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	Volume resistance	2.00 mΩ
Can be coded	Yes	Plugging cycles	25
Plugging force/pole, max.	12 N	Pulling force/pole, max.	7 N

## Material data

Insulating material	PA GF	Colour	Basalt grey
Colour chart (similar)	RAL 7012	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of solder connection	1...3 μm Ni / 4...6 μm Sn matt
Layer structure of plug contact	1...3 μm Ni / 4...6 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 acc. to IEC**

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

**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)	600 V	Rated current (Use group B / CSA)	33 A
Rated current (Use group C / CSA)	33 A	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)	35 A
Rated current (Use group C / UL 1059)	33 A	Rated current (Use group D / UL 1059)	5 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	351.00 mm
VPE width	138.00 mm	VPE height	39.00 mm

**Technical data - hybrid**

Pitch in mm (hybrid)	nominal	3.81 mm	
	Hybrid component	Signal	
Pitch in mm (Signal)	3.81 mm		
Pitch in inch (hybrid)	nominal	0.15 "	
	Hybrid component	Signal	
Pitch in inches (Signal)	0.15 "		
Pole count (hybrid)	nominal	4	
	Hybrid component	Signal	
Number of poles (Signal)	4		
Number of solder pins per pole (hybrid)	Hybrid component	Signal	
	nominal	1	
Number of solder pins per pole (Signal)	1		
Solder pin dimensions (hybrid)	Solder pin dimensions	0.8 x 0.8 mm	
	Hybrid component	Signal	
Solder pin dimensions (Signal)	0.8 x 0.8 mm		
Solder pin dimensions = d tolerance (hybrid)	Solder pin dimensions = d tolerance	Lower tolerance with prefix (reveals minimum)	-0,03

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**Technical data**

		Upper tolerance with prefix (reveals maximum)	+0,01	
		Tolerance, unit	mm	
	Hybrid component	Signal		
Solder pin dimensions = d tolerance (Signal)	-0,03 / +0,01 mm			
Diameter of solder eyelet (hybrid)	Hybrid component	Signal		
	nominal	1.3 mm		
PCB hole diameter (Signal)	1.3 mm			
Tolerance of the diameter of the solder eyelet (hybrid)	Hybrid component	Signal		
	Solder eyelet hole diameter tolerance (D)	± 0.1 mm		
	Solder eyelet hole diameter tolerance (D)	+ 0,1 mm		
PCB hole diameter tolerance (Signal)	± 0.1 mm			
L2 in mm	3.81 mm			
L2 in inch	0.150 "			
Number of rows (hybrid)	Hybrid component	Signal		
Number of rows (Signal)	2			
Contact material (hybrid)	Hybrid component	Signal		
	Contact material	CuMg		
Contact material (Signal)	CuMg			
Contact surface (hybrid)	Hybrid component	Signal		
	Contact surface	tinned		
Contact surface (Signal)	tinned			
Layer structure of the solder connection (hybrid)	Layer structure of the solder connection	Material	Ni	
		Layer strength	min.	1 µm
			max.	3 µm
		Material	Sn	
			Layer strength	min.
		max.		8 µm
Hybrid component	Signal			
Layer structure of the solder connection (Signal)	1-3 µm Ni / 4-8 µm Sn			
Layer structure of the plug contact (hybrid)	Layer structure of the plug contact	Material	Ni	
		Layer strength	min.	1 µm
			max.	3 µm
		Material	Sn	
			Layer strength	min.
		max.		8 µm
Hybrid component	Signal			
Layer structure of the plug contact (Signal)	1-3 µm Ni / 4-8 µm Sn			
Rated voltage for overvoltage class / pollution severity level II/2 (hybrid)	Hybrid component	Signal		
	nominal	320 V		
Rated voltage for overvoltage class/ pollution severity level II/2 (Signal)	320 V			
Rated voltage for overvoltage class / pollution severity level III/2 (hybrid)	Hybrid component	Signal		
	nominal	160 V		
Rated voltage for overvoltage class/ pollution severity level III/2 (Signal)	160 V			
Rated voltage for overvoltage class / pollution severity level III/3 (hybrid)	Hybrid component	Signal		
	nominal	160 V		
Rated voltage for overvoltage class/ pollution severity level III/3 (Signal)	160 V			
Rated impulse voltage for overvoltage class / pollution severity level II/2 (hybrid)	Hybrid component	Signal		
	nominal	2.5 kV		
Rated impulse voltage for overvoltage class/pollution severity level II/2 (Signal)	2.5 kV			

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**Technical data**

Rated impulse voltage for overvoltage class / pollution severity level III/2 (hybrid)	Hybrid component	Signal
	nominal	2.5 kV
Rated impulse voltage for overvoltage class/pollution severity level III/2 (Signal)	2.5 kV	
Rated impulse voltage for overvoltage class / pollution severity level III/3 (hybrid)	Hybrid component	Signal
	nominal	2.5 kV
Rated impulse voltage for overvoltage class/pollution severity level III/3 (Signal)	2.5 kV	
Rated current, number of poles (Tu=40°C) (hybrid)	Hybrid component	Signal
	min.	12.7 A
Rated current, number of poles (Tu=20°C) (hybrid)	Hybrid component	Signal
	min.	14.2 A
Short-time withstand current capacity (hybrid)	Short-time withstand current resistance	3 x 1s with 80 A
	Hybrid component	Signal
Short-time withstand current resistance (Signal)	3 x 1s with 80 A	
Creepage distance (hybrid)	Hybrid component	Signal
	min.	4.38 mm
Clearance distance (hybrid)	Hybrid component	Signal
	min.	3.6 mm
Rated voltage (Use group B / CSA) (Hybrid)	Hybrid component	Signal
	nominal	300 V
Rated voltage (Use group B / CSA) (Signal)	300 V	
Rated voltage (Use group C / CSA) (Hybrid)	Hybrid component	Signal
	nominal	50 V
Rated voltage (Use group C / CSA) (Signal)	50 V	
Rated current (Use group B / CSA) (Hybrid)	Hybrid component	Signal
	nominal	9 A
Rated current (Use group B / CSA) (Signal)	9 A	
Rated current (Use group C / CSA) (Hybrid)	Hybrid component	Signal
	nominal	9 A
Rated current (Use group C / CSA) (Signal)	9 A	
Rated current (Use group D / CSA) (Hybrid)	Hybrid component	Signal
	nominal	9 A
Rated current (Use group D / CSA) (Signal)	9 A	
Rated voltage (Use group B / UL 1059) (Hybrid)	Hybrid component	Signal
	nominal	300 V
Rated voltage (Use group B / UL 1059) (Signal)	300 V	
Rated voltage (Use group C / UL 1059) (Hybrid)	Hybrid component	Signal
	nominal	50 V
Rated voltage (Use group C / UL 1059) (Signal)	50 V	
Rated voltage (Use group D / UL 1059) (Hybrid)	Hybrid component	Signal
Rated current (Use group B / UL 1059) (Hybrid)	Hybrid component	Signal
	nominal	5 A
Rated current (Use group B / UL 1059) (Signal)	5 A	
Rated current (Use group C / UL 1059) (Hybrid)	Hybrid component	Signal
	nominal	5 A

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## Technical data

Rated current (Use group C / UL 1059) 5 A  
 (Signal)

Rated current (Use group D / UL 1059) (Hybrid)	Hybrid component	Signal
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### 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**

- 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 8.0	EC002637	ETIM 9.0	EC002637
ETIM 10.0	EC002637	ECLASS 14.0	27-46-03-01
ECLASS 15.0	27-46-03-01		

Dimensional drawing

