

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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Product image



















Similar to illustration

Tried-and-tested power connector system with TOP or leaf spring system. Versatile use.

General ordering data

Туре	STV S 2 LS90
Order No.	<u>1612480000</u>
Version	PCB plug-in connector, male header, Flange, THT solder connection, 7.00 mm, Number of poles: 2, 90°, Solder pin length (I): 3.2 mm, silver-plated, Pebble grey, Box
GTIN (EAN)	4008190199203
Qty.	10 pc(s).
Product data	IEC: 1000 V UL:
Packaging	Вох

Creation date May 3, 2020 9:31:16 PM CEST



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Technical data

Dimensions and weights

Net weight 11 g

System specifications

Product family	OMNIMATE Power - series STV	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	7 mm
Pitch in inches (P)	0.276 inch	Outgoing elbow	90°
Number of poles	2	Number of solder pins per pole	1
Solder pin length (I)	3.2 mm	Tolerance of solder pin position	± 0.1 mm
Solder eyelet hole diameter (D)	1.6 mm	Solder eyelet hole diameter tolerance (I	D)+ 0,1 mm
L1 in mm	7 mm	L1 in inches	0.276 inch
Number of rows	1	Pin series quantity	1
Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch	Touch-safe protection acc. to DIN VDE 0470	IP 10
Volume resistance	2.70 mΩ	Can be coded	Yes
Plugging force/pole, max.	4 N	Pulling force/pole, max.	4 N

Material data

Insulating material	Wemid (PA)	Colour	Pebble grey
Colour chart (similar)	RAL 7032	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	CuZn
Contact surface	silver-plated	Storage temperature, min.	-25 °C
Storage temperature, max.	50 °C	Max. relative humidity during storage	70 %
Operating temperature, min.	-50 °C	Temperature range, installation, min.	-25 °C

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, max. number of poles (Tu=20°C)	18 A
Rated current, max. number of poles (Tu=40°C)	15 A	Rated voltage for surge voltage class / pollution degree II/2	1,000 V
Rated voltage for surge voltage class / pollution degree III/2	500 V	Rated voltage for surge voltage class / pollution degree III/3	500 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 180 A

Rated data acc. to CSA

Rated data acc. to CSA			
Institute (CSA)	⊕	Certificate No. (CSA)	12400-343
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group D / CSA)	14 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		



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Technical data

Rated data acc. to UL 1059

Institute (UR)	W	Certificate No. (UR)	E92202
D . I I . (II	2001/	D	444
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Use group D / UL 1059)	14 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1977

Institute (UR)	<i>21</i> 1.	Certificate No. (UR)	
			E92202
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
Packaging	Вох	VPE length	55 mm
VPE width	78 mm	VPE height	113 mm

ETIM 6.0	EC002637	ETIM 7.0	EC002637
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10

ETIIVI O.U	EC002037	ETHVI 7.0	EC002037
eClass 9.0	27-44-04-02	eClass 9.1	27-44-04-02
eClass 10.0	27-44-04-02	UNSPSC	30-21-18-10
Notes			
Notes	Additional colours on	request	
	Rated current related	to rated cross-section & min. No. of pol	es.
	• P on drawing = pitch		
	•	o the component itself. Clearance and lance with the relevant application star	creepage distances to other components are to dards.
IPC conformity	standards and norms an	•	ivered according international recognized n the data sheet resp. fulfill decorative properties products can be evaluated on request.

Approvals

ROHS

Approvals	
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Conform

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Technical data

Downloads

Approval/Certificate/Document of		
Conformity	Declaration of the Manufacturer	
Brochure/Catalogue	MB DEVICE MANUF. EN	
_	FL 72H SAMPLE SER EN	
	PO OMNIMATE EN	
Engineering Data	EPLAN, WSCAD	
White paper UL 600 V	Download Whitepaper	



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Accessories

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.

Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Туре	STV S KO	Version	Product data	Packaging
Order No.	<u>1613800000</u>	PCB plug-in connector, Accessories, Coding element, black		Box
GTIN (EAN)	4008190198923			
Qty.	50 pc(s).			



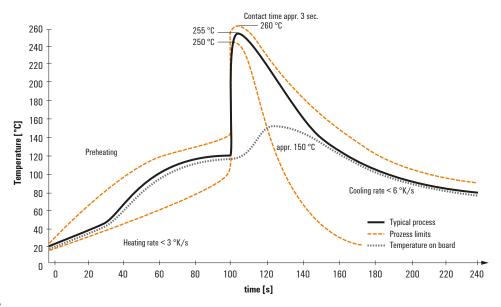
Recommended wave solderding profiles

Weidmüller Interface GmbH & Co. KG

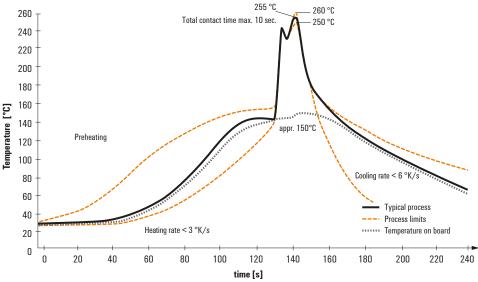
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Single Wave:



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.