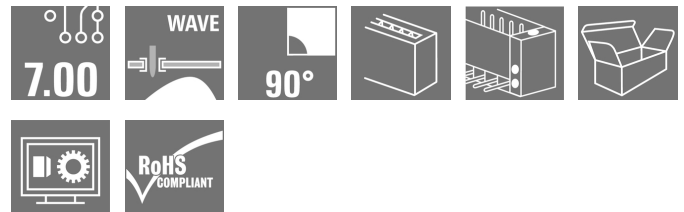


OMNIMATE Power - series STV STV S 10 LS90

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 www.weidmueller.com

Product image



Similar to illustration

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

General ordering data

Type	STV S 10 LS90
Order No.	1612640000
Version	PCB plug-in connector, male header, Flange, THT solder connection, 7.00 mm, No. of poles: 10, 90°, Solder pin length (l): 3.2 mm, silver-plated, Pebble grey, Box
GTIN (EAN)	4008190199364
Qty.	10 pc(s).
Product data	IEC: 1000 V UL:
Packaging	Box

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Technical data
Dimensions and weights

Net weight 29.768 g

System specifications

Product family		Type of connection	
OMNIMATE Power - series STV			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°
No. of poles	10	Number of solder pins per pole	1
Solder pin length (l)	3.2 mm	Tolerance of solder pin position	± 0.15 mm
Solder eyelet hole diameter (D)	1.6 mm	Solder eyelet hole diameter tolerance (D)	+ 0,1 mm
L1 in mm	63 mm	L1 in inches	2.48 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		Colour	
Wemid (PA)			Pebble grey
Colour chart (similar)	RAL 7032	Insulating material group	I
CTI	≥ 600	Insulation resistance	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	CuZn
Contact surface	silver-plated	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Max. relative humidity during storage	80 %
Operating temperature, min.	-50 °C	Temperature range, installation, min.	-25 °C

Rated data acc. to IEC

tested acc. to standard		Rated current, max. no. of poles (Tu=20°C)	
IEC 60664-1, IEC 61984			18 A
Rated current, max. no. 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

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.		


Data sheet

**OMNIMATE Power - series STV
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Technical data

Rated data acc. to UL 1059

Institute (UR)		Certificate No. (UR)	E92202
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)		Certificate No. (UR)	E92202
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packaging

Packaging	Box	VPE length	67 mm
VPE width	106 mm	VPE height	136 mm

Classifications

ETIM 3.0	EC001284	ETIM 4.0	EC002637
ETIM 5.0	EC002637	ETIM 6.0	EC002637
UNSPSC	30-21-18-10	eClass 5.1	27-26-07-01
eClass 6.2	27-26-07-03	eClass 7.1	27-44-01-01
eClass 8.1	27-44-01-01	eClass 9.0	27-44-01-01
eClass 9.1	27-44-04-02		

Notes

Notes	<ul style="list-style-type: none"> • 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.
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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.
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Approvals

Approvals	
ROHS	Conform

Data sheet**OMNIMATE Power - series STV
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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

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.