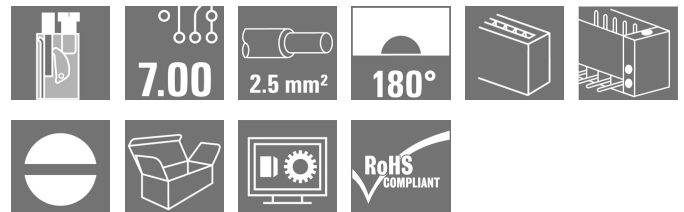


## OMNIMATE Power - series STV STV S 8 TS

**Weidmüller Interface GmbH & Co. KG**  
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### Product image



Similar to illustration

Tried-and-tested power connector system for straight conductor-conductor connections, with TOP system for space-saving conductor connection. Counterpart also available with optional solder pins for PCB connection. Versatile thanks to mounting bracket for fixing to enclosure and screw locking, plus extensive accessories.

### General ordering data

Type	STV S 8 TS
Order No.	<a href="#">1612400000</a>
Version	PCB plug-in connector, male plug, 7.00 mm, Number of poles: 8, 180°, TOP connection, Clamping range, max. : 2.5 mm <sup>2</sup> , Box
GTIN (EAN)	4008190199128
Qty.	10 pc(s).
Product data	IEC: / 24 A / 0.5 - 2.5 mm <sup>2</sup> UL: 600 V / 17 A / AWG 22 - AWG 14
Packaging	Box

Creation date August 17, 2020 6:13:33 AM CEST

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**Technical data**
**Dimensions and weights**

Height	22.6 mm	Height (inches)	0.89 inch
Depth	40.8 mm	Depth (inches)	1.606 inch
Net weight	64.7 g		

**System Parameters**

Product family	OMNIMATE Power - series STV	Type of connection	Field connection
Wire connection method	TOP connection	Pitch in mm (P)	7 mm
Pitch in inches (P)	0.276 inch	Conductor outlet direction	180°
Number of poles	8	L1 in mm	49 mm
L1 in inches	1.929 inch	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	Stripping length	15 mm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264

**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 <sup>8</sup> Ω
UL 94 flammability rating	V-0	Contact material	CuZn
Contact surface	silver-plated	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C		

**Conductors suitable for connection**

Clamping range, min.	0.32 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 22	Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>	Solid, max. H05(07) V-U	2.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>	Flexible, max. H05(07) V-K	2.5 mm <sup>2</sup>
Plug gauge in accordance with EN 60999 a x b; ø		Reference text	The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.
	2.8 mm x 2.0 mm		
Max. clamping range	2.5 mm <sup>2</sup>		

**Rated data acc. to IEC**


tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	24 A
Rated current, max. number of poles (Tu=20°C)	22 A	Rated current, min. number of poles (Tu=40°C)	20 A
Rated current, max. number of poles (Tu=40°C)	19 A	Short-time withstand current resistance	1 x 1s with 300 A

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**Technical data**


**Rated data acc. to CSA**

Institute (CSA)				Certificate No. (CSA)	
				12400-343	
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V		
Rated current (Use group B / CSA)	17 A	Rated current (Use group D / CSA)	17 A		
Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 14		
Reference to approval values	Specifications are maximum values, details - see approval certificate.				

**Rated data acc. to UL 1059**

Institute (UR)				Certificate No. (UR)	
				E92202	
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.				
Rated current (UL 1977)	17 A	Rated voltage (UL 1977)	600 V		
AWG-conductor, max. (UL 1977)	14	AWG-conductor, min. (UL 1977)	22		

**Packing**

Packaging	Box	VPE length	50 mm
VPE width	120 mm	VPE height	180 mm

**Classifications**

ETIM 6.0	EC002638	ETIM 7.0	EC002638
eClass 9.0	27-44-03-09	eClass 9.1	27-44-03-09
eClass 10.0	27-44-03-09	UNSPSC	30-21-18-10

**Data sheet**

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**Technical data**

**Notes**

Notes	<ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• P on drawing = pitch</li> <li>• 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.</li> <li>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul>
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.

**Approvals**

Approvals	
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ROHS	Conform
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**Downloads**

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

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**Drawings****Dimensional drawing**