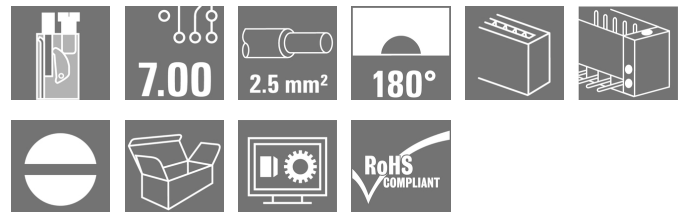


## OMNIMATE Power - series STV STV S 6 TS

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com



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 6 TS
Order No.	<a href="#">1612340000</a>
Version	PCB plug-in connector, male plug, 7.00 mm, Number of poles: 6, 180°, TOP connection, Clamping range, max. : 2.5 mm <sup>2</sup> , Box
GTIN (EAN)	4008190199067
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 May 3, 2020 9:31:57 PM 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	51 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	6	L1 in mm	35 mm
L1 in inches	1.378 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	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	124 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> </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



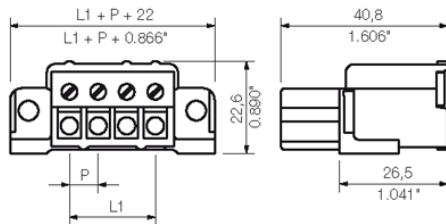
ROHS Conform

**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**

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**Accessories**
**Strain reliefs**

**For frequent load changes: the "trailer coupling" for plug-in connectors.**

The strain relief can do more than just relieve the strain on conductors:

Simply clip onto the plug and

- bundle conductors
- guide cables
- use as a connection and disconnection aid

No damage to the connecting points, clear, tidy wiring and easy to handle.

User advantages: permanent heavy-duty connections for harsh industrial environments and convenient operation ensure improved system availability.

**General ordering data**

Type	STVS 6 ZE SW	Version	Product data	Packaging
Order No.	<a href="#">1613900000</a>	PCB plug-in connector, Accessories, Strain relief, black, Number of		Box
GTIN (EAN)	4008190296803	poles: 6		
Qty.	10 pc(s).			

**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**

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