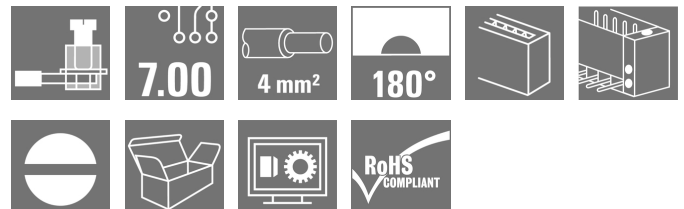


## OMNIMATE Power - series STV STV S 10 SS

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



Tried-and-tested power connector system for straight conductor-conductor connections. 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.

- 0.32 - 4.00 mm<sup>2</sup> (IEC) / 22 - 12 AWG (UL)
- 1000 V (IEC) / 600 V (UL)
- 32 A (IEC) / 25 A (UL)

### General ordering data

Type	STV S 10 SS
Order No.	<a href="#">1612190000</a>
Version	PCB plug-in connector, male plug, 7.00 mm, No. of poles: 10, 180°, Pressure clamp connection, Clamping range, max.: 4 mm <sup>2</sup> , Box
GTIN (EAN)	4008190198909
Qty.	10 pc(s).
Product data	IEC: 1000 V / 32 A / 0.5 - 4 mm <sup>2</sup> UL: 600 V / 25 A / AWG 22 - AWG 12
Packaging	Box

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

Net weight	36.198 g
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**System parameters**

Product family		Type of connection	
Product family	OMNIMATE Power - series STV	Type of connection	Field connection
Wire connection method	Pressure clamp connection	Pitch in mm (P)	7 mm
Pitch in inches (P)	0.276 inch	Conductor outlet direction	180°
No. of poles	10	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 finger touch, plugged
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	Volume resistance	1.60 mΩ
Can be coded	Yes	Stripping length	9 mm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Clamping screw	M 3	Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264	push-in force/pole	6 N
Withdrawal force per pole	12 N	Packaging	Box

**Material data**

Insulating material	Wemid (PA)	Colour	Pebble grey
Colour chart (similar)	RAL 7032	Insulating material group	I
CTI	≥ 600	Insulation resistance	≥ 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.	0.5 mm <sup>2</sup>	Clamping range, max.	4 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	4 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>	Flexible, max. H05(07) V-K	4 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.5 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt 4, max.	4 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm <sup>2</sup>	w. wire end ferrule, DIN 46228 pt 1, max.	4 mm <sup>2</sup>
Plug gauge acc. to EN 60999 a x b; Ø	2.8 mm x 2.0 mm		

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### Technical data

#### Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. no. of poles (Tu=20°C)	32 A
Rated current, max. no. of poles (Tu=20°C)	28 A	Rated current, min. no. of poles (Tu=40°C)	32 A
Rated current, max. no. of poles (Tu=40°C)	24 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 340 A

#### Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	12400-343
Rated voltage (Use group B)	300 V	Rated voltage (use group D)	300 V
Rated current (use group B)	25 A	Rated current (use group D)	25 A
Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 12
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)	25 A	Rated voltage (UL 1977)	600 V
AWG-conductor, max. (UL 1977)	12	AWG-conductor, min. (UL 1977)	22

#### 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		

Creation date May 14, 2018 8:52:19 AM CEST

**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>• Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.</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	The products are developed, manufactured and delivered according to the internationally recognised IPC-A-610 standard, category "permissible". More extensive demands on the products can be evaluated on request.

**Approvals**

Approvals



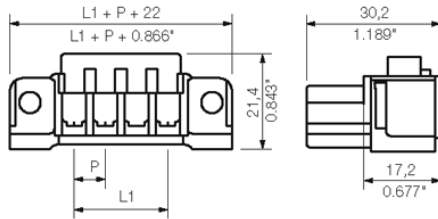
ROHS Conform

**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

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

### 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	Order No.	Version	GTIN (EAN)	Qty.	Product data	Packaging
STVS 10 ZE SW	<a href="#">1613940000</a>	PCB plug-in connector, Accessories, Strain relief, Black, No. of poles: 10	4008190296841	10 pc(s).	UL:	Box

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