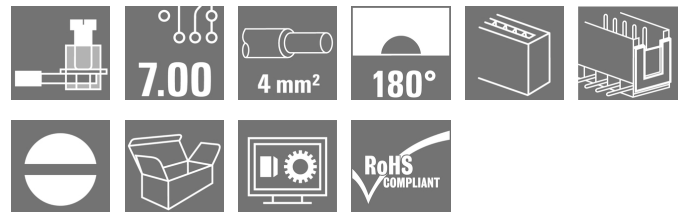


STV S 6 SB**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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.

General ordering data

Version	PCB plug-in connector, female plug, 7.00 mm, Number of poles: 6, 180°, Clamping yoke connection, Clamping range, max.: 4 mm², Box
Order No.	1612080000
Type	STV S 6 SB
GTIN (EAN)	4008190198794
Qty.	10 pc(s).
Product data	IEC: 1000 V / 32 A / 0.5 - 4 mm² UL: 600 V / 25 A / AWG 22 - AWG 12
Packaging	Box

Creation date March 24, 2021 11:03:50 AM CET

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Technical data

Dimensions and weights

Depth	30.2 mm	Depth (inches)	1.189 inch
Height	21.4 mm	Height (inches)	0.843 inch
Net weight	24.198 g		

System Parameters

Product family	OMNIMATE Power - series STV	Type of connection	Field connection
Wire connection method	Clamping yoke 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
Touch-safe protection acc. to DIN VDE 0470	IP 20	Volume resistance	1.80 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		

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.	-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 ²
Clamping range, max.	4 mm ²
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 ²
Solid, max. H05(07) V-U	4 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	4 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 4 mm ² max.	
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, max.	4 mm ²
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.2 mm

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Clampable conductor	Cross-section for conductor connection	Type	fine-wired	
		nominal	2.5 mm ²	
	wire end ferrule	Stripping length	nominal	10 mm
		Recommended wire-end ferrule	H2.5/15D BL	
	Cross-section for conductor connection	Type	fine-wired	
		nominal	4 mm ²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H4.0/18D GR	
		Stripping length	nominal	9 mm
		Recommended wire-end ferrule	H4.0/9	

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.

Rated data acc. to IEC

tested acc. to standard		IEC 60664-1, IEC 61984	
Rated current, max. number of poles (Tu=20°C)	28 A	Rated current, min. number of poles (Tu=20°C)	32 A
Rated current, max. number of poles (Tu=40°C)	24 A	Rated current, min. number of poles (Tu=40°C)	32 A
Rated voltage for surge voltage class / pollution degree III/2	500 V	Rated voltage for surge voltage class / pollution degree II/2	1,000 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated voltage for surge voltage class / pollution degree III/3	500 V
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	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	
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.		

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Technical data

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 voltage (UL 1977)

600 V

Rated current (UL 1977)

25 A

AWG-conductor, min. (UL 1977)

22

AWG-conductor, max. (UL 1977)

12

Packing

Packaging

Box

VPE length

42 mm

VPE width

96 mm

VPE height

169 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

ECLASS 11.0

27-46-02-02

Important note

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.

Notes

- Additional colours on request
- Rated current related to rated cross-section & min. No. of poles.
- Crimp form A for wire end ferrules with PZ 6/5 crimping tool are recommended for the largest cable sizes.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals



ROHS

Conform

UL File Number Search

E92202

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Technical data

Downloads

Approval/Certificate/Document of
Conformity

[Declaration of the Manufacturer](#)

Engineering Data

[EPLAN, WSCAD](#)

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Drawings

Dimensional drawing

