

STV S 6 TS

Weidmüller Interface GmbH & Co. KG

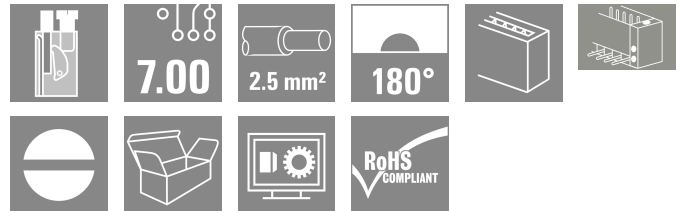
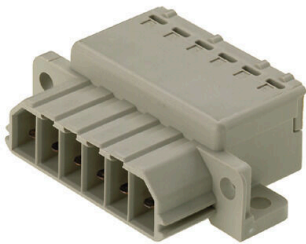
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product is no longer available



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

| | |
|-----------------|--|
| Version | PCB plug-in connector, male plug, 7.00 mm, Number of poles: 6, 180°, TOP connection, Clamping range, max. : 2.5 mm², Box |
| Order No. | 1612340000 |
| Type | STV S 6 TS |
| GTIN (EAN) | 4008190199067 |
| Qty. | 10 items |
| Product data | IEC: / 24 A / 0.5 - 2.5 mm² UL: 600 V / 17 A / AWG 22 - AWG 14 |
| Packaging | Box |
| Delivery status | Discontinued |
| Available until | 2022-12-31T00:00:00+01:00 |

Creation date 25.02.2026 11:16:45 MEZ

Catalogue status / Drawings

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (UR) E92202

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 40.8 mm | Depth (inches) | 1.6063 inch |
| Height | 22.6 mm | Height (inches) | 0.8898 inch |
| Net weight | 49.4 g | | |

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption

REACH SVHC No SVHC above 0.1 wt%

System Parameters

| | | | |
|--|-----------------------------|--|---------------------------------|
| Product family | OMNIMATE Power - series STV | Type of connection | Field connection |
| Wire connection method | TOP connection | Pitch in mm (P) | 7.00 mm |
| Pitch in inches (P) | 0.276 " | Conductor outlet direction | 180° |
| Number of poles | 6 | L1 in mm | 35.00 mm |
| L1 in inches | 1.378 " | 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 |
| Plugging cycles | 25 | | |

Material data

| | | | |
|---------------------------------------|---------------|---------------------------------------|-------------|
| Insulating material | PA | Colour | Pebble grey |
| Colour chart (similar) | RAL 7032 | Insulating material group | I |
| Comparative Tracking Index (CTI) | ≥ 600 | Moisture Level (MSL) | |
| UL 94 flammability rating | V-0 | Contact material | Cu-alloy |
| 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. | 2.5 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 | 2.5 mm ² |
| Flexible, min. H05(07) V-K | 0.5 mm ² | Flexible, max. H05(07) V-K | 2.5 mm ² |
| Plug gauge in accordance with EN 60999 a x b; ø | 2.8 mm x 2.0 mm | Reference text | The outside diameter of the plastic collar should not be larger than the pitch |

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(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, 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 |

Rated data acc. to CSA

| | | | |
|-----------------------------------|--|-----------------------------------|-----------|
| Institute (CSA) | 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) | 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) | UR | Certificate No. (UR) | E92202 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |
| Rated current (UL 1977) (obsolete) | 17 A | Rated voltage (UL 1977) (obsolete) | 600 V |
| AWG-conductor, max. (UL 1977) | 14 | AWG-conductor, min. (UL 1977) | 22 |

Packing

| | | | |
|-----------|-----------|------------|-----------|
| Packaging | Box | VPE length | 178.00 mm |
| VPE width | 123.00 mm | VPE height | 51.00 mm |

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 | <ul style="list-style-type: none"> • Additional variants on request • Rated current related to rated cross-section & min. No. of poles. • 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. • In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load |

Technical data

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002638 | ETIM 9.0 | EC002638 |
| ETIM 10.0 | EC002638 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 | | |

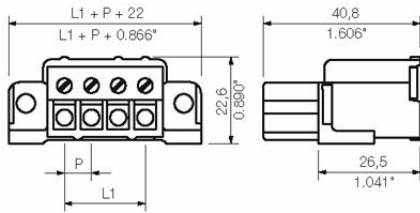
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Drawings

www.weidmueller.com

Dimensional drawing



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Accessories

Coding elements



The pluggable connections for power electronics - optimised for modern drive technologies, e.g. motor starters, frequency converters and servo-controllers. OMNIMATE Power sets the new standard – with increased safety and innovative solutions such as the pluggable shield, integrated signal contacts and one-handed operation.

The three product lines offer you further advantages:

- Application-oriented scalability: from the compact 4 mm² connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm² connector for 76 A (IEC) or 54 A (UL)
- Unlimited usage up to 1,000 V (IEC) or 600 V (UL)
- A variety of application optimised mounting options

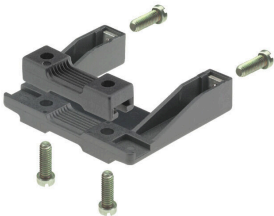
Our service:

Design your individual connectors simply by using the product configurator.

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | STV S KO | Version | |
| Order No. | 1613800000 | PCB plug-in connector, Accessories, Coding element, black | |
| GTIN (EAN) | 4008190198923 | | |
| Qty. | 50 ST | | |

Strain reliefs



The pluggable connections for power electronics - optimised for modern drive technologies, e.g. motor starters, frequency converters and servo-controllers. OMNIMATE Power sets the new standard – with increased safety and innovative solutions such as the pluggable shield, integrated signal contacts and one-handed operation.

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- Unlimited usage up to 1,000 V (IEC) or 600 V (UL)
- A variety of application optimised mounting options

Our service:

Design your individual connectors simply by using the product configurator.

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | STVS 6 ZE SW | Version | |
| Order No. | 1613900000 | PCB plug-in connector, Accessories, Strain relief, black, Number of poles: 6 | |
| GTIN (EAN) | 4008190296803 | | |
| Qty. | 10 ST | | |