

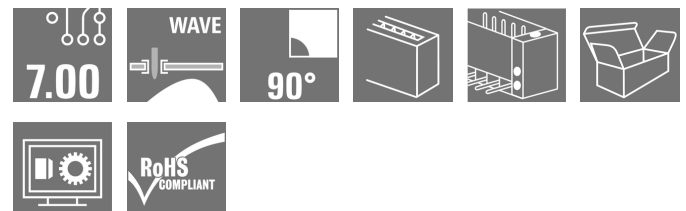
STV S 3 LS90**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

Similar to illustration

Tried-and-tested power connector system with TOP or leaf spring system. Versatile use.

General ordering data

Version	PCB plug-in connector, male header, Flange, THT solder connection, 7.00 mm, Number of poles: 3, 90°, Solder pin length (l): 3.2 mm, silver-plated, Pebble grey, Box
Order No.	1612500000
Type	STV S 3 LS90
GTIN (EAN)	4008190199227
Qty.	10 pc(s).
Product data	IEC: 1000 V UL:
Packaging	Box

Creation date March 24, 2021 11:06:08 AM CET

STV S 3 LS90

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Technical data

Dimensions and weights

Net weight	14 g
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System specifications

Product family	OMNIMATE Power - series STV	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	7 mm
Pitch in inches (P)	0.276 inch	Outgoing elbow	90°
Number of poles	3	Number of solder pins per pole	1
Solder pin length (l)	3.2 mm	Solder eyelet hole diameter (D)	1.6 mm
Solder eyelet hole diameter tolerance (D)+	0.1 mm	L1 in mm	14 mm
L1 in inches	0.551 inch	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch
Touch-safe protection acc. to DIN VDE 0470	IP 10	Volume resistance	2.70 mΩ
Can be coded	Yes	Plugging force/pole, max.	4 N
Pulling force/pole, max.	4 N		

Material data

Insulating material	Wemid (PA)	Colour	Pebble grey
Colour chart (similar)	RAL 7032	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	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	Temperature range, installation, min.	-25 °C

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, max. number of poles (Tu=20°C)	18 A
Rated current, max. number of poles (Tu=40°C)	15 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 180 A

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	12400-343
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group D / CSA)	14 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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Technical data

Rated data acc. to UL 1059

Institute (UR)



Certificate No. (UR)

E92202

Rated voltage (Use group D / UL 1059) 600 V

Rated current (Use group D / UL 1059) 14 A

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.

Packing

Packaging

Box

VPE length

35 mm

VPE width

90 mm

VPE height

130 mm

Classifications

ETIM 6.0

EC002637

ETIM 7.0

EC002637

ECLASS 9.0

27-44-04-02

ECLASS 9.1

27-44-04-02

ECLASS 10.0

27-44-04-02

ECLASS 11.0

27-46-02-01

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.
- 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

Creation date March 24, 2021 11:06:08 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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Technical data

Downloads

Approval/Certificate/Document of
Conformity

[Declaration of the Manufacturer](#)

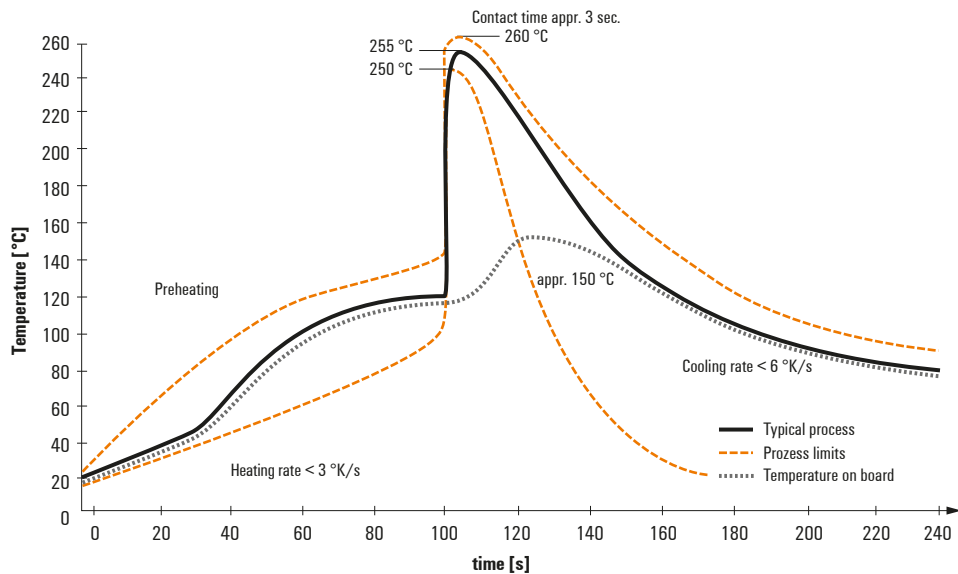
Engineering Data

[EPLAN, WSCAD](#)

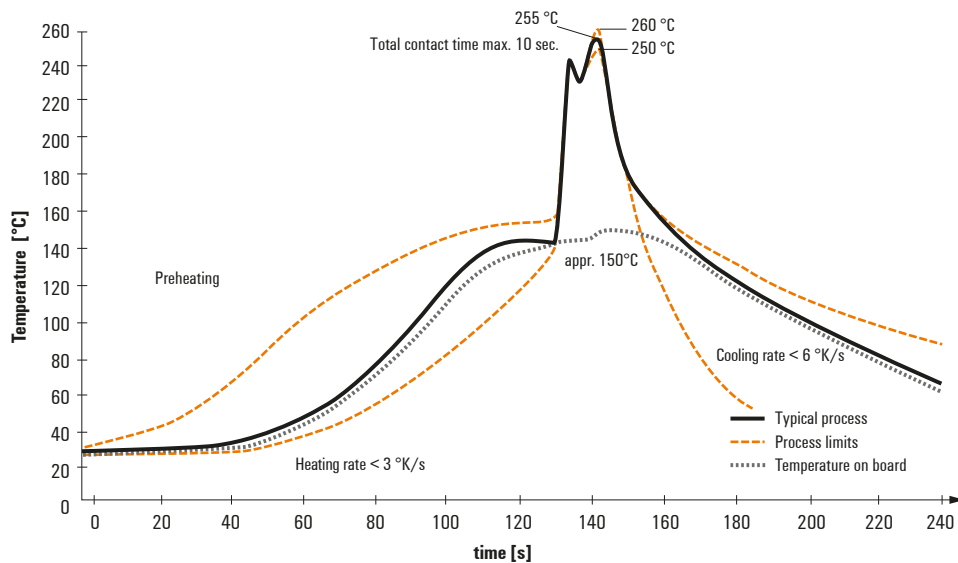
Recommended wave soldering profiles

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Single Wave:



Double Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.