

## STV S 3 LB180

Weidmüller Interfaces GmbH &amp; Co. KG

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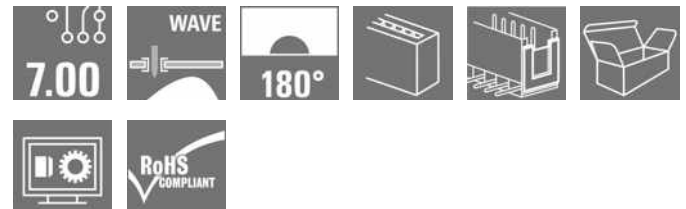
info@weidmueller.com

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## 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, female header, Flange, THT solder connection, 7.00 mm, Number of poles: 3, 180°, Solder pin length (l): 3.2 mm, silver-plated, Pebble grey, Box
Order No.	<a href="#">1612690000</a>
Type	STV S 3 LB180
GTIN (EAN)	4008190199418
Qty.	10 pc(s).
Product data	IEC: 1000 V UL:
Packaging	Box
Delivery status	<b>Discontinued</b>
Available until	2022-12-31

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## Technical data

## Dimensions and weights

Net weight 14.4 g

## Temperatures

Operating temperature, min. -50 °C

## 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	180°
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.		

Creation date April 27, 2023 2:59:55 PM CEST

Catalogue status 14.04.2023 / We reserve the right to make technical changes.

**Data sheet**

**STV S 3 LB180**

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E92202

**Technical data**

**Rated data acc. to UL 1059**

Institute (UR)



Certificate No. (UR)

www.weidmueller.com

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

40 mm

VPE width

90 mm

VPE height

130 mm

**Classifications**

ETIM 6.0

EC002637

ETIM 7.0

EC002637

ETIM 8.0

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

ECLASS 12.0

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 variants 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.

**Approvals**

Approvals



ROHS

Conform

UL File Number Search

UL Website

Certificate No. (UR)

E92202

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**Technical data**

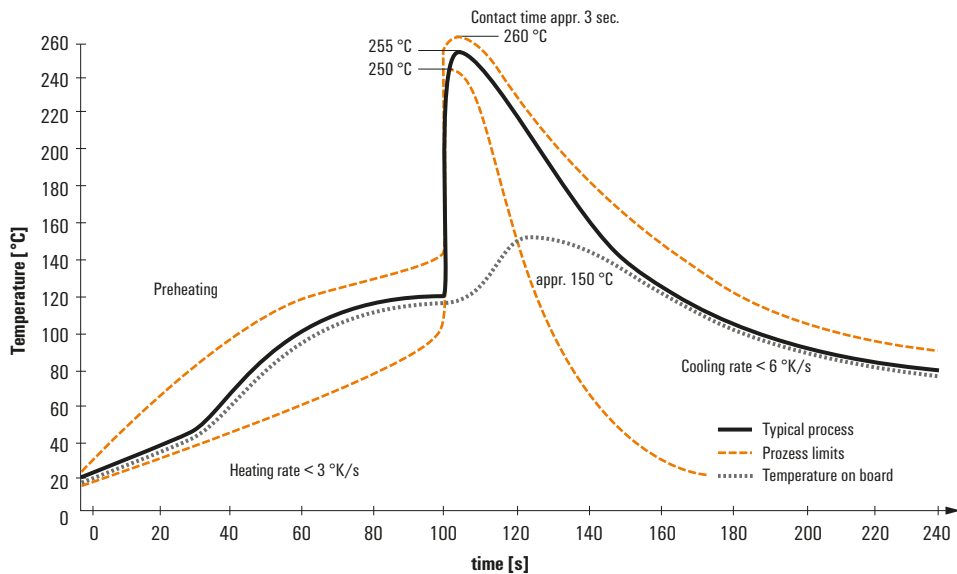
**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">WSCAD</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">MB DEVICE MANUF. EN</a>
	<a href="#">FL 72H SAMPLE SER EN</a>
	<a href="#">PO OMNIMATE EN</a>

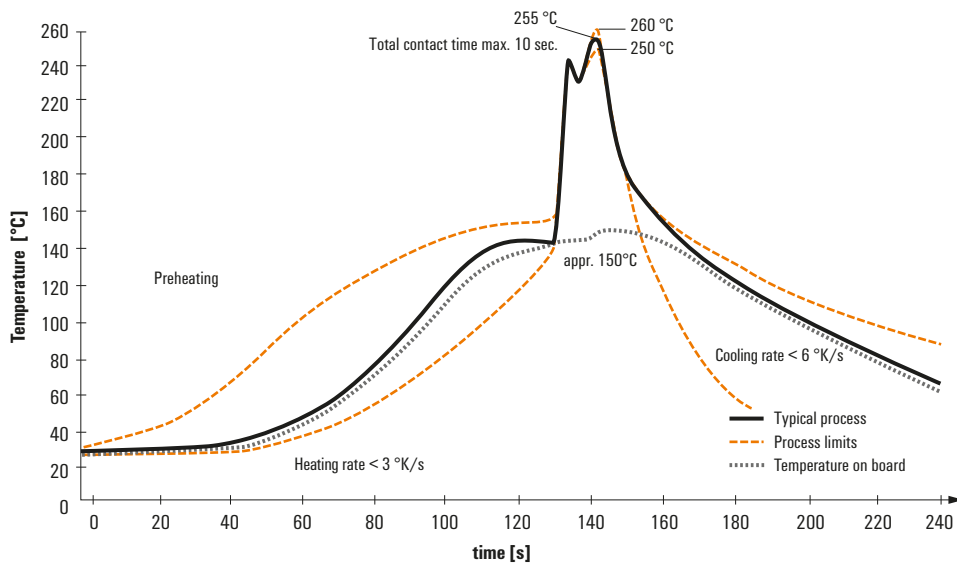
## Recommended wave soldering profiles

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 Germany  
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 www.weidmueller.com

### 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.