

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com





Similar to illustration

OMNIMATE Power for IT networks – scalable to 50 kVA

Tailor-made solutions for special requirements

More standard-compliance means fewer compromises: OMNIMATE Power for IT networks has integrated features incorporated as standard across the range. This makes the design-in and approvals process simpler and makes them safer and more reliable in operation. Results for the application and advantages for the user: unlimited use in 400-V IT systems and touch safety according to IEC 61800-5-1 (+ 5.5 mm). The selfsnapping one-handed safety flange enables intuitive and safe usage. Operational reliability is guaranteed by the automatic interlock feature during the plug-in process. In conclusion: You need no additional device covering. The application-oriented design means that no compromises are necessary during the approval process.

General ordering data

| Туре | SV-SMT 7.62IT/03/270MSF2 2.6SN BK RL |
|---|--|
| Order No. | <u>2546070000</u> |
| Version PCB plug-in connector, male header, Middle flange, THT/THR solder connection, 7.62 m Number of poles: 3, 270°, Solder pin length mm, tinned, black, Tape | |
| GTIN (EAN) | 4050118556100 |
| Qty. | 110 pc(s). |
| Product data | IEC: 1000 V / 41 A UL: 300 V / 40.5 A |
| Packaging | Таре |

Technical data

Dimensions and weights



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| Height of lowest version | 11.4 mm | Depth | 28.3 mm |
|---|----------------------------|---|------------------|
| Depth (inches) | 1.114 inch | Net weight | 6.6 g |
| System specifications | | | |
| Product family | OMNIMATE Power - series | Type of connection | |
| | BV/SV 7.62HP | | Board connection |
| Mounting onto the PCB | THT/THR solder | Pitch in mm (P) | |
| | connection | | 7.62 mm |
| Pitch in inches (P) | 0.3 inch | Outgoing elbow | 270° |
| Number of poles | 3 | Number of solder pins per pole | 2 |
| Solder pin length (I) | 2.6 mm | Solder pin length tolerance | +0.1 / -0.3 mm |
| Tolerance of solder pin position | ± 0.1 mm | Solder pin dimensions | 0.8 x 1.0 mm |
| Solder eyelet hole diameter (D) | 1.4 mm | Solder eyelet hole diameter tolerance (D)+ 0,1 mm | |
| L1 in mm | 22.86 mm | L1 in inches | 0.9 inch |
| Number of rows | 1 | Pin series quantity | 1 |
| Touch-safe protection acc. to DIN VDE | safe to back of hand above | Touch-safe protection acc. to DIN VDE | |
| 57 106 | the printed circuit board | 0470 | IP 20 |
| Volume resistance | 2.00 mΩ | Tightening torque for screw flange, min. | 0.2 Nm |
| Tightening torque for screw flange, max | . 0.3 Nm | Plugging cycles | 25 |
| Plugging force/pole, max. | 12 N | Pulling force/pole, max. | 7 N |

Material data

| Insulating material | PA GF HT3 |
|---------------------------------------|-----------------------|
| Colour chart (similar) | RAL 9011 |
| Comparative Tracking Index (CTI) | ≥ 600 |
| Moisture Level (MSL) | 3 |
| Contact material | Copper alloy |
| Layer structure of solder connection | 1-3 µm Ni / 4-6 µm Sn |
| | matt |
| Storage temperature, min. | -25 °C |
| Max. relative humidity during storage | 70 % |
| Operating temperature, max. | 130 °C |
| Temperature range, installation, max. | 130 °C |

| Colour | black |
|---------------------------------------|-------------------------------|
| Insulating material group | I |
| Insulation strength | ≥ 10 ⁸ Ω |
| UL 94 flammability rating | V-0 |
| Contact surface | tinned |
| Layer structure of plug contact | 1-3 µm Ni / 4-6 µm Sn matt |
| Storage temperature, max. | 50 °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, min. number of poles (Tu=20°C) | 41 A |
|--|------------------------|---|-------------------|
| Rated current, max. number of poles | | Rated current, min. number of poles | |
| (Tu=20°C) | 41 A | (Tu=40°C) | 41 A |
| Rated current, max. number of poles | | Rated voltage for surge voltage class / | |
| (Tu=40°C) | 41 A | pollution degree II/2 | 1,000 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 630 V | Rated voltage for surge voltage class / pollution degree III/3 | 630 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 | | Short-time withstand current resistance | |
| class/ contamination degree III/3 | 6 kV | | 3 x 1s with 420 A |
| Clearance, min. | 6.9 mm | Creepage distance, min. | 9.6 mm |

Technical data

Rated data acc. to UL 1059

Institute (cURus)

Clearance distance, min. Reference to approval values

| Institute (cUKus) | c Ru s |
|---------------------------------------|---------------|
| Rated voltage (Use group B / UL 1059) | 300 V |
| Rated voltage (Use group D / UL 1059) | 600 V |
| Rated current (Use group C / UL 1059) | 40.5 A |
| Clearance distance, min. | 6.9 mm |

Specifications are maximum values, details see approval certificate.

Certificate No. (cURus)

| | E60693 |
|---------------------------------------|--------|
| Rated voltage (Use group C / UL 1059) | 300 V |
| Rated current (Use group B / UL 1059) | 40.5 A |
| Rated current (Use group D / UL 1059) | 5 A |
| Creepage distance, min. | 9.6 mm |
| | |

Packing

| Packaging | Таре | VPE length | 0 |
|--------------------------|----------|-----------------------------|------------------------------|
| VPE width | 0 | VPE height | 0 |
| Tape depth (T2) | 15.8 mm | Tape width (W) | 56 mm |
| Tape pocket depth (K0) | 15.3 mm | Tape pocket height (A0) | 28.4 mm |
| Tape pocket width (B0) | 39.06 mm | Tape pocket separation (P1) | 36 mm |
| Tape hole separation (E) | 1.75 mm | Tape pocket separation (F) | 26.2 mm |
| Tape reel diameter Ø (A) | 330 mm | Surface resistance | $Rs = 10^9 - 10^{12} \Omega$ |

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 | | |

Notes

Notes

- · Additional colours on request
- · Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch

IPC conformity

· 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. 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.

Approvals

Approvals



Downloads

| White paper power electronics | |
|-------------------------------|---------------------|
| connected correctly | Download Whitepaper |
| White paper UL 600 V | Download Whitepaper |

Creation date May 2, 2020 6:01:54 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.



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Mating connector (fully pluggable)

BVZ 7.72IT 180MSF SN





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180° female plug with a 7.62 pitch for IT power networks. Meets the requirements of UL1059 600 V class C. In combination with male header SV 7.62 IT.. with leading contact.

Meets the extended requirements on 5.5 mm touch safety for IT power networks as per IEC 61800-5-1 for 400 V to earth.

The self-locking (optionally also screwable) middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

On request also available without middle flange interlock.

General ordering data

| Туре | BVZ 7.62IT/03/180MSF2 S | Version | Product data | Packaging |
|------------|---|--|--|-----------|
| Order No. | <u>2630090000</u> | PCB plug-in connector, female plug, 7.62 mm, Number of poles: 3, | IEC: 1000 V / 41 A / 0.2 - 6 mm ² | Box |
| GTIN (EAN) | 4050118633665 180°, Clamping yoke connection, Clamping range, max. : 10 mm², BoxUL: 600 V / 40.5 A / AWG 24 - AWG | | | |
| Qty. | 40 pc(s). | | 8 | |

Accessories

Coding elements





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Only connects what is supposed to be connected: the right connection at the right place.

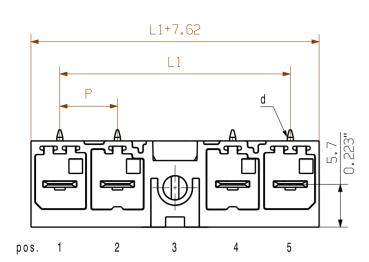
Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation

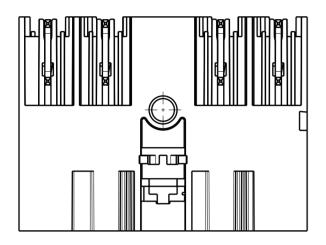
The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase. The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery. Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible. The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

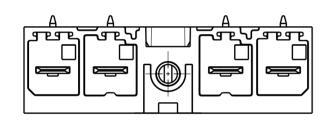
| Туре | BV/SV 7.62HP KO | Version | Product data | Packaging |
|------------|-------------------|---|--------------|-----------|
| Order No. | <u>1937590000</u> | PCB plug-in connector, Accessories, Coding element, black, Number | | Box |
| GTIN (EAN) | 4032248608881 | of poles: 1 | | |
| Qty. | 50 pc(s). | | | |

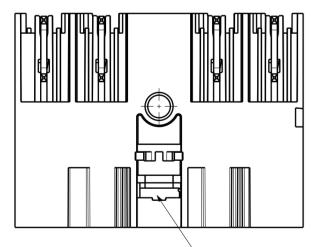
<u>SV-SMT 7.62IT/04/270MF3</u>





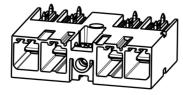
<u>SV-SMT 7.62IT/04/270MSF3</u>



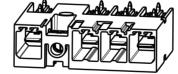


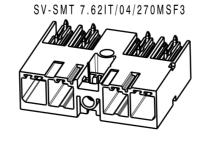
VKMU nur für MSF-Varianten / square nut only for MSF-variants SV-SMT 7.62IT/04/270MF2

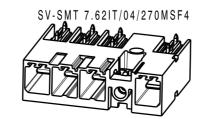
SV-SMT 7.62IT/04/270MF3



SV-SMT 7.62IT/04/270MSF2



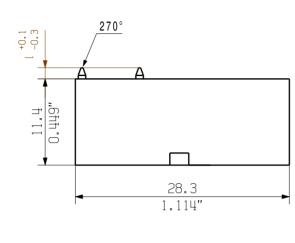


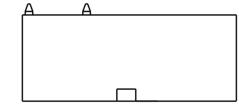


SV-SMT 7.62IT/04/270MF4



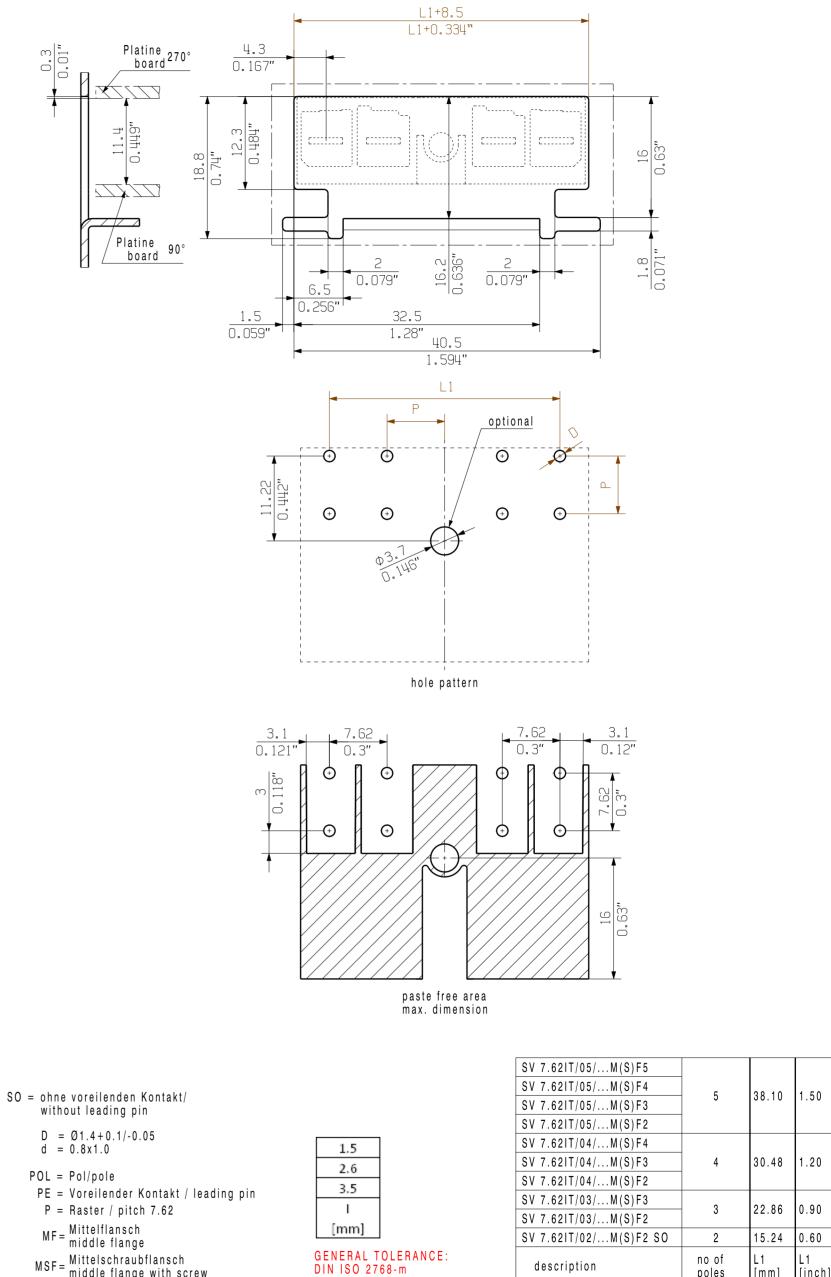






The English version is binding

PolPolPolPolMFPEPolPolPolMFPolPol



MSF = Mittelschraubflansch middle flange with screw

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.

The neccessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

| | | | 110211/00/ | | | 5 | 20 10 | 1 50 | | | | | | | | | |
|---|-----------|--|--|--|---|---|---|--|---|--|---|--|---|---|--|--|---|
| | | SV 7.62IT/05/M(S)F3 | | | | 0 | 38.10 | 1.50 | Pol | Pol | MF | Pol | Pol | Pol | | | |
| | | | 7.62IT/05/ | M(S)F2 | | | | | PE | MF | Pol | Pol | Pol | Pol | | | |
| 7 | | SV | 7.62IT/04/ | M(S)F4 | | 4 | 30.48 | | Pol | Pol | Pol | MF | PE | | | | |
| - | | SV | 7.62IT/04/ | M(S)F3 | | | | | Pol | Pol | MF | Pol | Pol | | | | |
| 2.6 3.5 I [mm] GENERAL TOLERANCE: DIN ISO 2768-m | | | 7.62IT/04/ | M(S)F2 | | | | | PE | MF | Pol | Pol | Pol | | | | |
| | | | SV 7.62IT/03/M(S)F3 | | | 2 | 22.86 | 0 00 | Pol | Pol | MF | PE | | | | | |
| | | | SV 7.62IT/03/M(S)F2 | | | 5 | 22.00 | 0.90 | PE | MF | Pol | Pol | | | | | |
| | | | 7.62IT/02/ | M(S)F2 | S0 | 2 | 15.24 | 0.60 | Pol | MF | Pol | | | | | | |
| | | | description | | | no of | L1 | L1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | | description | | | poles | [mm] | [inch] | position MF | | | | | | | | |
| EC00002212 | | | | Prim PLM | Part | No.: 225880 | | Prim | ERP | Ра | rt N | 0.: | 249 | 9955 | 500 | 0 0 | |
| | M a | lax nos | | | | | | | | | | | | | | | |
| First Issue Date | | x. 1103 | We | | | idmüller ⁄ 🗠 | | | | Drawing no. Issue no. | | | | | | | |
| 14.11.2016 M (| | | ication | | Sheet 16 of 17 sheets | | | | | | | | | | | | |
| 10 | | | Date | Name | | | | | | | | | | | | | |
| Drawn | | | 30.08.2019 | Helis, Maria | aria SV-SMT 7.62HP/IT//90/270 | | | | | | | | | | | | |
| | ponsible | | Döhrer, Karl | | | | | | | | | | | | | | |
| Scale: 2:1 Size: A2 Approv | | roved | 09.10.2019 | Lang, Thomas | MALE HEADER | | | | | | | | | | | | |
| Drawings Assembly | | | | | | Product file: 7407 BLF 7.50HP . | | | | | | | | | | | |
| | 1 Size: / | 768-m EC00002212 First Issue Date 14.11.2016 Dran Res 1 Size: A2 | SV SV | SV 7.62IT/05/ SV 7.62IT/04/ SV 7.62IT/04/ SV 7.62IT/04/ SV 7.62IT/04/ SV 7.62IT/03/ SV 7.62IT/03/ SV 7.62IT/03/ SV 7.62IT/03/ SV 7.62IT/03/ SV 7.62IT/02/ description TOLERANCE: 768-m description First Issue Date 14.11.2016 Max. nos. First Issue Date 14.11.2016 Date Drawn 30.08.2019 Responsible 1 Size: A2 Approved | SV 7.62IT/05/M(S)F3 SV 7.62IT/05/M(S)F2 SV 7.62IT/04/M(S)F4 SV 7.62IT/04/M(S)F3 SV 7.62IT/04/M(S)F3 SV 7.62IT/04/M(S)F3 SV 7.62IT/03/M(S)F2 SV 7.62IT/03/M(S)F2 SV 7.62IT/03/M(S)F2 SV 7.62IT/03/M(S)F2 SV 7.62IT/02/M(S)F2 Dotate Max. nos. 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Wave Solder Profile

Recommended wave solderding profiles

Weidmüller 🟵

Weidmüller Interface GmbH & Co. KG

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Double Wave:

Single 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.

Reflow Solder Profile

Recommended reflow soldering profile



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Time [sec]

Reflow soldering profile

The perfect soldering profile for SMT Surface Mount Technology is one the most exiting question in SMT production. But there are more than one correct answer: The diagram of temperature-on-time is related to processing features of solder paste and to maximum load of components.

We have to consider the following parameters:

- Time for pre heating
- Maximum temperature
- Time above melting point
- Time for cooling
- Maximum heating rate
- · Maximum cooling rate

We recommend a typical solder profile with associated process limits. With preheating components and board are prepared smoothly for the solder phase. Heating rate is typically $\leq +3$ K/s. In parallel the solder paste is ,activated'. The time above melting point of 217°C the paste gets liquid and components and boards begin to connect. The maximum temperature of 245°C to 254°C should stay between 10 and 40 seconds. In the cooling phase at \geq -6K/s solder is cured. Board and components cool down while avoiding cold cracks.