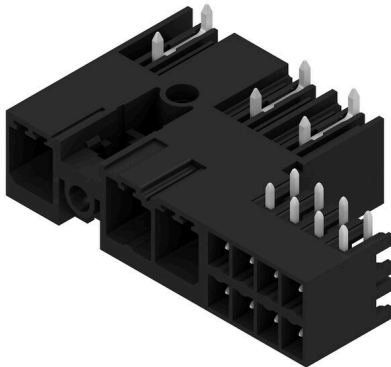


**SV-SMT 7.62HP/03/270MF2 SC/8 2.6SN BX**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

**Product image**


OMNIMATE Power BV / SV 7.62HP Hybrid – for power, signals and EMC

Three functions in one!

The OMNIMATE Power Hybrid connector provides developers and users with the perfect three-in-one solution.

This hybrid motor connector simultaneously unites power, signals and pluggable EMC shield support. Thus you save space on the PCB, on the outer side of the housing, and in the electrical cabinet. The self-snapping one-handed interlock mechanism requires only one plugging step and thus speeds up installation and maintenance procedures. It is easy to handle and interlocks automatically – even in difficult installation positions. The unique shielding shape and slender 30° wire entry enable a space savings of up to 10 cm between rows.

**General ordering data**

|              |   |
|--------------|---|
| Version      | PCB plug-in connector, male header, closed side, Middle flange, THT/THR solder connection, 7.62 mm, Number of poles: 3, 270°, Solder pin length (l): 2.6 mm, tinned, black, Box |
| Order No.    | <a href="#">2529410000</a>  |
| Type         | SV-SMT 7.62HP/03/270MF2 SC/8 2.6SN BX   |
| GTIN (EAN)   | 4050118539585   |
| Qty.         | 36 items  |
| Product data | IEC: 1000 V / 41 A<br>UL: 300 V / 33 A  |
| Packaging    | Box   |

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## Technical data

## Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate No. (cURus) | E60693                     |

## Dimensions and weights

|                          |             |                 |             |
|--------------------------|-------------|-----------------|-------------|
| Depth                    | 28.3 mm     | Depth (inches)  | 1.1142 inch |
| Height                   | 14 mm       | Height (inches) | 0.5512 inch |
| Height of lowest version | 11.4 mm     | Width           | 46.69 mm    |
| Width (inches)           | 1.8382 inch | Net weight      | 2 g         |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## System specifications

|  |  |  |                  |
|--|--|--|------------------|
| Product family                               | OMNIMATE Power - series BV/SV 7.62HP                 | Type of connection                         | Board connection |
| Mounting onto the PCB                        | THT/THR solder connection                            | Pitch in mm (P)                            | 7.62 mm          |
| Pitch in inches (P)                          | 0.300 "  | Outgoing elbow                             | 270°             |
| Number of poles                              | 3  | Number of solder pins per pole             | 2                |
| Solder pin length (l)                        | 2.6 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                               | 0.900 "          |
| L2 in mm                                     | 11.43 mm   | L2 in inch                                 | 0.450 "          |
| Number of rows                               | 1  | Pin series quantity                        | 1                |
| Touch-safe protection acc. to DIN VDE 57 106 | safe to back of hand above the printed circuit board | Touch-safe protection acc. to DIN VDE 0470 | IP 20            |
| Volume resistance                            | 2.00 mΩ  | Can be coded                               | Yes              |
| Plugging force/pole, max.                    | 12 N   | Pulling force/pole, max.                   | 7 N              |

## Material data

|                                       |                                |                                       |                                |
|---------------------------------------|--------------------------------|---------------------------------------|--------------------------------|
| Insulating material                   | PA 9T                          | Colour                                | black                          |
| Colour chart (similar)                | RAL 9011                       | Insulating material group             | I                              |
| Comparative Tracking Index (CTI)      | ≥ 600                          | Moisture Level (MSL)                  | 1                              |
| UL 94 flammability rating             | V-0                            | Contact material                      | Cu-alloy                       |
| Contact surface                       | tinned                         | Layer structure of solder connection  | 1...3 μm Ni / 4...6 μm Sn matt |
| Layer structure of plug contact       | 1...3 μm Ni / 4...6 μm Sn matt | Storage temperature, min.             | -40 °C                         |
| Storage temperature, max.             | 70 °C                          | Operating temperature, min.           | -50 °C                         |
| Operating temperature, max.           | 130 °C                         | Temperature range, installation, min. | -25 °C                         |
| Temperature range, installation, max. | 130 °C                         |                                       |                                |

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**Technical data**

**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 (Tu=20°C)                             | 41 A                   | Rated current, min. number of poles (Tu=40°C)                         | 41 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 41 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 1000 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 class/ contamination degree III/3 | 6 kV                   | Short-time withstand current resistance                               | 3 x 1s with 420 A |

**Rated data acc. to UL 1059**

|                                       |  |                                       |        |
|---------------------------------------|--|---------------------------------------|--------|
| Institute (cURus)                     | CURUS  | Certificate No. (cURus)               | E60693 |
| Rated voltage (Use group B / UL 1059) | 300 V  | Rated voltage (Use group C / UL 1059) | 300 V  |
| Rated voltage (Use group D / UL 1059) | 600 V  | Rated current (Use group B / UL 1059) | 33 A   |
| Rated current (Use group C / UL 1059) | 33 A   | Rated current (Use group D / UL 1059) | 5 A    |
| Creepage distance, min.               | 9.6 mm   | Clearance distance, min.              | 6.9 mm |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate. |                                       |        |

**Packing**

|           |           |            |           |
|-----------|-----------|------------|-----------|
| Packaging | Box       | VPE length | 338.00 mm |
| VPE width | 130.00 mm | VPE height | 33.00 mm  |

**Technical data - hybrid**

|  |                                     |   |       |
|--|-------------------------------------|---|-------|
| Pitch in mm (hybrid)                         | nominal                             | 3.81 mm                                       |       |
|  | Hybrid component                    | Signal  |       |
| Pitch in mm (Signal)                         | 3.81 mm                             |   |       |
| Pitch in inch (hybrid)                       | nominal                             | 0.15 "  |       |
|  | Hybrid component                    | Signal  |       |
| Pitch in inches (Signal)                     | 0.15 "                              |   |       |
| Pole count (hybrid)                          | nominal                             | 8   |       |
|  | Hybrid component                    | Signal  |       |
| Number of poles (Signal)                     | 8                                   |   |       |
| Number of solder pins per pole (hybrid)      | Hybrid component                    | Signal  |       |
|  | nominal                             | 1   |       |
| Number of solder pins per pole (Signal)      | 1                                   |   |       |
| Solder pin dimensions (hybrid)               | Solder pin dimensions               | 0.8 x 0.8 mm                                  |       |
|  | Hybrid component                    | Signal  |       |
| Solder pin dimensions (Signal)               | 0.8 x 0.8 mm                        |   |       |
| Solder pin dimensions = d tolerance (hybrid) | Solder pin dimensions = d tolerance | Lower tolerance with prefix (reveals minimum) | -0,03 |
|  |                                     | Upper tolerance with prefix (reveals maximum) | +0,01 |
|  |                                     | Tolerance, unit                               | mm    |
|  | Hybrid component                    | Signal  |       |
| Solder pin dimensions = d tolerance (Signal) | -0,03 / +0,01 mm                    |   |       |
| Diameter of solder eyelet (hybrid)           | Hybrid component                    | Signal  |       |
|  | nominal                             | 1.3 mm  |       |

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### Technical data

|   |   |                |      |      |
|---|---|----------------|------|------|
| PCB hole diameter (Signal)  | 1.3 mm                                    |                |      |      |
| Tolerance of the diameter of the solder eyelet (hybrid)                               | Hybrid component                          | Signal         |      |      |
|   | Solder eyelet hole diameter tolerance (D) | ± 0.1 mm       |      |      |
|   | Solder eyelet hole diameter tolerance (D) | + 0,1 mm       |      |      |
| PCB hole diameter tolerance (Signal)  | ± 0.1 mm                                  |                |      |      |
| L2 in mm  | 11.43 mm                                  |                |      |      |
| L2 in inch  | 0.450 "                                   |                |      |      |
| Number of rows (hybrid)   | Hybrid component                          | Signal         |      |      |
| Number of rows (Signal)   | 2   |                |      |      |
| Contact material (hybrid)   | Hybrid component                          | Signal         |      |      |
|   | Contact material                          | CuMg           |      |      |
| Contact material (Signal)   | CuMg                                      |                |      |      |
| Contact surface (hybrid)  | Hybrid component                          | Signal         |      |      |
|   | Contact surface                           | tinned         |      |      |
| Contact surface (Signal)  | tinned                                    |                |      |      |
| Layer structure of the solder connection (hybrid)                                     | Layer structure of the solder connection  | Material       | Ni   |      |
|   |   | Layer strength | min. | 1 µm |
|   |   |                | max. | 3 µm |
|   |   | Material       | Sn   |      |
|   |   | Layer strength | min. | 4 µm |
| max.  | 8 µm                                      |                |      |      |
| Hybrid component  | Signal                                    |                |      |      |
| Layer structure of the solder connection (Signal)                                     | 1-3 µm Ni / 4-8 µm Sn                     |                |      |      |
| Layer structure of the plug contact (hybrid)  | Layer structure of the plug contact       | Material       | Ni   |      |
|   |   | Layer strength | min. | 1 µm |
|   |   |                | max. | 3 µm |
|   |   | Material       | Sn   |      |
|   |   | Layer strength | min. | 4 µm |
| max.  | 8 µm                                      |                |      |      |
| Hybrid component  | Signal                                    |                |      |      |
| Layer structure of the plug contact (Signal)  | 1-3 µm Ni / 4-8 µm Sn                     |                |      |      |
| Rated voltage for overvoltage class / pollution severity level II/2 (hybrid)          | Hybrid component                          | Signal         |      |      |
|   | nominal                                   | 320 V          |      |      |
| Rated voltage for overvoltage class / pollution severity level II/2 (Signal)          | 320 V                                     |                |      |      |
| Rated voltage for overvoltage class / pollution severity level III/2 (hybrid)         | Hybrid component                          | Signal         |      |      |
|   | nominal                                   | 160 V          |      |      |
| Rated voltage for overvoltage class / pollution severity level III/2 (Signal)         | 160 V                                     |                |      |      |
| Rated voltage for overvoltage class / pollution severity level III/3 (hybrid)         | Hybrid component                          | Signal         |      |      |
|   | nominal                                   | 160 V          |      |      |
| Rated voltage for overvoltage class / pollution severity level III/3 (Signal)         | 160 V                                     |                |      |      |
| Rated impulse voltage for overvoltage class / pollution severity level II/2 (hybrid)  | Hybrid component                          | Signal         |      |      |
|   | nominal                                   | 2.5 kV         |      |      |
| Rated impulse voltage for overvoltage class / pollution severity level II/2 (Signal)  | 2.5 kV                                    |                |      |      |
| Rated impulse voltage for overvoltage class / pollution severity level III/2 (hybrid) | Hybrid component                          | Signal         |      |      |
|   | nominal                                   | 2.5 kV         |      |      |
| Rated impulse voltage for overvoltage class / pollution severity level III/2 (Signal) | 2.5 kV                                    |                |      |      |
| Rated impulse voltage for overvoltage class / pollution severity level III/3 (hybrid) | Hybrid component                          | Signal         |      |      |
|   | nominal                                   | 2.5 kV         |      |      |

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|   |   |                  |
|---|---|------------------|
| Rated impulse voltage for overvoltage class/pollution severity level III/3 (Signal) | 2.5 kV                                  |                  |
| Short-time withstand current capacity (hybrid)                                      | Short-time withstand current resistance | 3 x 1s with 80 A |
|   | Hybrid component                        | Signal           |
| Short-time withstand current resistance (Signal)                                    | 3 x 1s with 80 A                        |                  |
| Creepage distance (hybrid)  | Hybrid component                        | Signal           |
|   | min.                                    | 4.38 mm          |
| Clearance distance (hybrid)   | Hybrid component                        | Signal           |
|   | min.                                    | 3.6 mm           |
| Rated voltage (Use group B / CSA) (Hybrid)  | Hybrid component                        | Signal           |
|   | nominal                                 | 300 V            |
| Rated voltage (Use group B / CSA) (Signal)  | 300 V                                   |                  |
| Rated voltage (Use group C / CSA) (Hybrid)  | Hybrid component                        | Signal           |
|   | nominal                                 | 50 V             |
| Rated voltage (Use group C / CSA) (Signal)  | 50 V                                    |                  |
| Rated current (Use group B / CSA) (Hybrid)  | Hybrid component                        | Signal           |
|   | nominal                                 | 9 A              |
| Rated current (Use group B / CSA) (Signal)  | 9 A                                     |                  |
| Rated current (Use group C / CSA) (Hybrid)  | Hybrid component                        | Signal           |
|   | nominal                                 | 9 A              |
| Rated current (Use group C / CSA) (Signal)  | 9 A                                     |                  |
| Rated current (Use group D / CSA) (Hybrid)  | Hybrid component                        | Signal           |
|   | nominal                                 | 9 A              |
| Rated current (Use group D / CSA) (Signal)  | 9 A                                     |                  |
| Rated voltage (Use group B / UL 1059) (Hybrid)                                      | Hybrid component                        | Signal           |
|   | nominal                                 | 300 V            |
| Rated voltage (Use group B / UL 1059) (Signal)                                      | 300 V                                   |                  |
| Rated voltage (Use group C / UL 1059) (Hybrid)                                      | Hybrid component                        | Signal           |
|   | nominal                                 | 50 V             |
| Rated voltage (Use group C / UL 1059) (Signal)                                      | 50 V                                    |                  |
| Rated voltage (Use group D / UL 1059) (Hybrid)                                      | Hybrid component                        | Signal           |
|   | nominal                                 | 300 V            |
| Rated voltage (Use group D / UL 1059) (Signal)                                      | 300 V                                   |                  |
| Rated current (Use group B / UL 1059) (Hybrid)                                      | Hybrid component                        | Signal           |
|   | nominal                                 | 5 A              |
| Rated current (Use group B / UL 1059) (Signal)                                      | 5 A                                     |                  |
| Rated current (Use group C / UL 1059) (Hybrid)                                      | Hybrid component                        | Signal           |
|   | nominal                                 | 5 A              |
| Rated current (Use group C / UL 1059) (Signal)                                      | 5 A                                     |                  |
| Rated current (Use group D / UL 1059) (Hybrid)                                      | Hybrid component                        | Signal           |

**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"> <li>• Technical specifications refer to the power contacts</li> </ul>   |

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- Technical data of signal contacts: 50V / 5A, stripping length 8mm
- Rated current related to rated cross-section & min. No. of poles.
- Specifications of diagram: P1=7.62 mm; P2=3.81 mm
- 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.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3
- 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
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002637    | ETIM 9.0    | EC002637    |
| ETIM 10.0   | EC002637    | ECLASS 14.0 | 27-46-03-01 |
| ECLASS 15.0 | 27-46-03-01 |             |             |

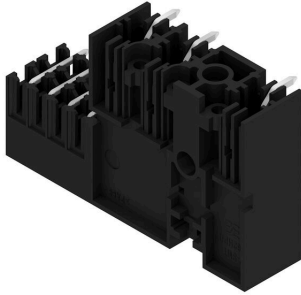
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Drawings

Product image



Dimensional drawing

