



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Connectors in 7.62 mm pitch - Series BV/SV 7.62 - connects up to 6 mm²
Explanation



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.

The hybrid motor connector can simultaneously connect power, signals and a pluggable EMC shield. This allows you to save space on the circuit board, on the outside of the housing and in the electrical cabinet. The self-locking 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 with 30° cable entry enable a space savings of up to 10 cm between rows.

F



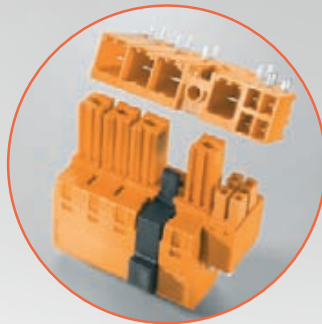
Unique safety

Safe, EMC-compliant shield connection for any application situation and with no risk of error.



Unique integration

Three-in-one solution: pluggable shield support, integrated signal contacts, and one-handed security flange.



Unique component density

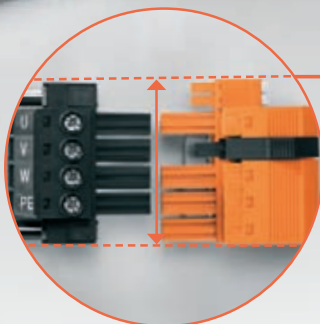
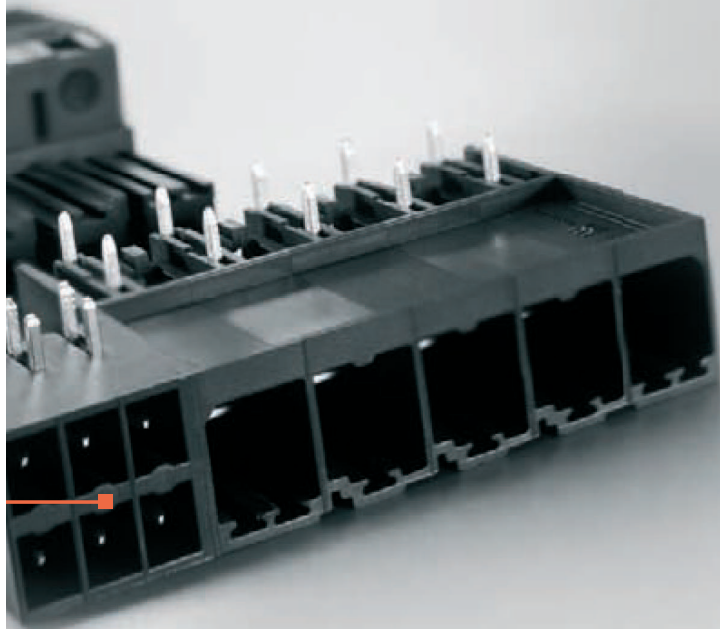
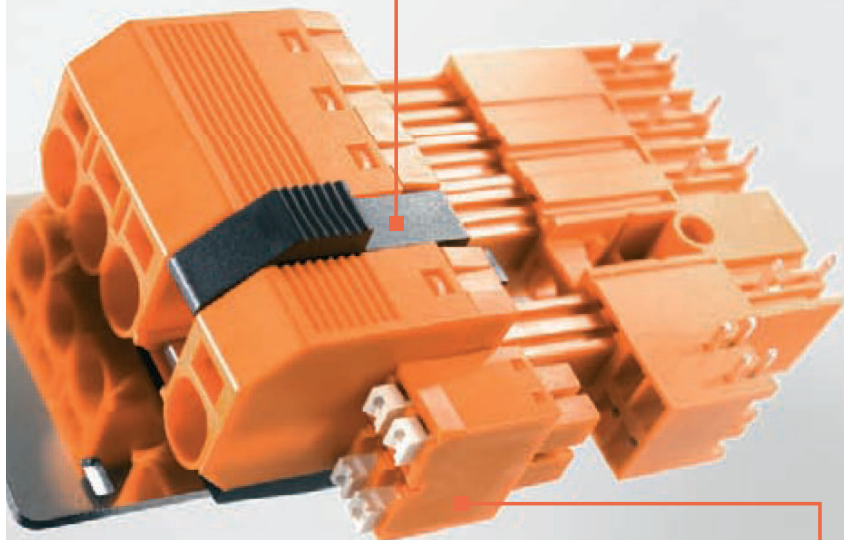
More space available on the PCB providing for denser component assemblies, and more space available on the housing wall because of true-to-pitch integration of the signal contacts – while maintaining the same width!





Unique interaction

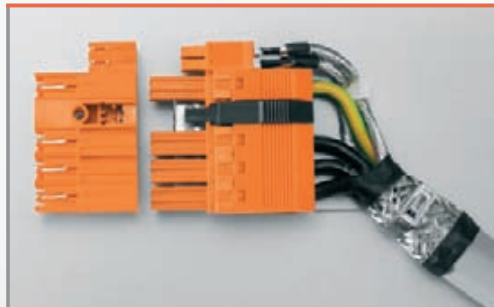
Plug & Work with intuitive handling: featuring tool-free one-handed operation with automatic snap-in and also “blind” plugging of power, signals and shielding simultaneously.



Unique innovation

Integrating functions, optimising processes, and reducing complexity: The conventional 2 outer flanges have simply been replaced by 1 middle flange, 4 signal contacts and 1 pluggable shield support.

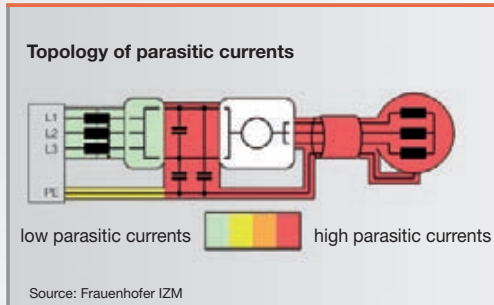
EMC in theory and in the real world



F

The motor feedback (signal feedback from temperature/encoder) in hybrid, shield-within-shield motor cables is usually made from over-sized power contacts or from disconnected I/O connectors. It also normally requires two separate shield connections. During installation and repairs (replacement), it is possible that the shield terminals could be incorrectly connected, left disconnected or lost. With conventional shielding, it can be quite difficult to tighten the flange screws when the connection is located at a difficult to reach location. So this step is often neglected in the real world.

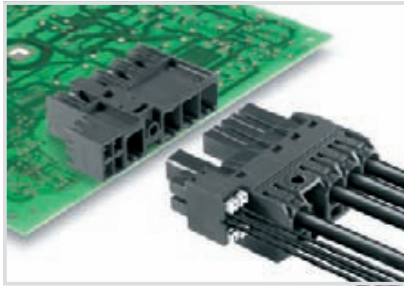
Reliably avoiding interferences



As a result, malfunctions can then be caused by the coupling of electromagnetic fields within the sensitive electronics. The pluggable, hybrid shield support features a special EMC spring-contact strip which ensures that the shield connection to the housing is permanent, vibration-proof and covers a large surface area. It allows the shielding braid from the power and signal wires to be connected separately – and enables this to be done automatically in one step so that it is not dependent on the user.

Connectors in 7.62 mm pitch Series BV/SV 7.62 – connects up to 6 mm²

SV 7.62HP/.../90 & SC 3.81



Hybrid-header in 90° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in accordance with UL508 / UL840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

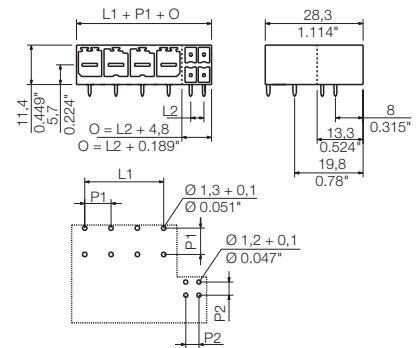
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section and 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.

SV 7.62HP/.../90 SC/...R



Dimensioned drawing



F

Technical data

In compliance with IEC 60664-1 / IEC 61984

| | | | |
|---------------------------------------|-----------------------|--------------|------------|
| Clamping range, max. | mm ² | | |
| Solid core H05(07) V-U | mm² | | |
| Stranded H07 V-R | | | |
| Flexible H05(07) V-K | mm ² | | |
| Flexible with ferrule | mm ² | | |
| Ferrule with plastic collar | mm ² | | |
| Stripping length | mm | | |
| Screwdriver blade | mm | | |
| According to norm | | | |
| Tightening torque range | Nm | | |
| Rated current, max. | A | 41 | 41 |
| At ambient temperature | 20°C | | 40°C |
| For conductor cross-section | mm ² | | |
| Overvoltage category | | III | III |
| Pollution severity | | 3 | 2 |
| Rated voltage | V | 630 | 630 |
| Rated impulse voltage | kV | 6 | 6 |
| UL / CUL (Use Group) | | B | C |
| Rated voltage | V | 300 | 300 |
| Rated current | A | 35 | 35 |
| AWG conductor | AWG | - | - |
| CSA (Use Group) | | B | C |
| Rated voltage | V | 300 | 300 |
| Rated current | A | 35 | 35 |
| AWG conductor | AWG | - | - |
| General data | | | |
| Type of insulation material | | PA GF | |
| Flammability class UL 94 | | V-0 | |
| Contact base material | | Copper alloy | |
| Material of contact surface | | tinned | |
| Pin dimensions = d | mm | 0.8 x 1.0 | |
| Solder eyelet $\varnothing = D$ | mm | 1.3 | |
| Solder eyelet \varnothing tolerance | mm | +0,1 | |

Accessories

Note: Refer to the Accessories chapter for additional accessories.

| Coding | Order No. |
|-----------------|------------|
| BV/SV 7.62HP KO | 1937590000 |

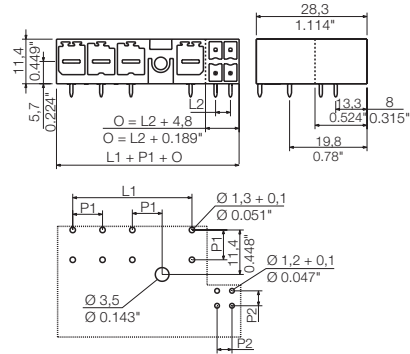
Ordering data

| Solder pin length | | 3.5 mm | | | | |
|-------------------|-----------|-----------|-------|-----------|----|------------|
| Colour | | black | | | | |
| Pitch | | 7.62 mm | | | | |
| Pol. | L1 (inch) | L2 (inch) | Qty. | Order No. | | |
| 2 / 4 | 7.62 | 0.300 | 3.81 | 0.150 | 78 | 1089840000 |
| 2 / 6 | 7.62 | 0.300 | 7.62 | 0.300 | 72 | 1089920000 |
| 2 / 8 | 7.62 | 0.300 | 11.43 | 0.450 | 60 | 1157040000 |
| 3 / 4 | 15.24 | 0.600 | 3.81 | 0.150 | 60 | 1090040000 |
| 3 / 6 | 15.24 | 0.600 | 7.62 | 0.300 | 54 | 1090120000 |
| 3 / 8 | 15.24 | 0.600 | 11.43 | 0.450 | 48 | 1157050000 |
| 4 / 4 | 22.86 | 0.900 | 3.81 | 0.150 | 48 | 1090280000 |
| 4 / 6 | 22.86 | 0.900 | 7.62 | 0.300 | 42 | 1090360000 |
| 4 / 8 | 22.86 | 0.900 | 11.43 | 0.450 | 42 | 1157380000 |
| 5 / 4 | 30.48 | 1.200 | 3.81 | 0.150 | 36 | 1090520000 |
| 5 / 6 | 30.48 | 1.200 | 7.62 | 0.300 | 36 | 1090590000 |
| 5 / 8 | 30.48 | 1.200 | 11.43 | 0.450 | 36 | 1157080000 |

SV 7.62HP/.../90MF. SC/..R



Dimensioned drawing



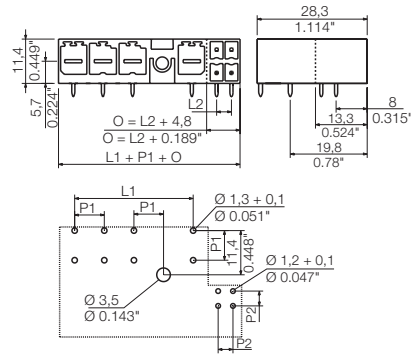
Ordering data

| Solder pin length | | 3.5 mm | |
|-------------------|-----------|-----------|------------|
| Colour | | black | |
| Pitch 7.62 mm | | | |
| Pol. | L1 (inch) | L2 (inch) | Order No. |
| 2 / 4 | 7.62 | 0.300 | 1089370000 |
| 2 / 6 | 7.62 | 0.300 | 1089410000 |
| 2 / 8 | 7.62 | 0.300 | 1156820000 |
| 3 / 4 | 15.24 | 0.600 | 1156230000 |
| 3 / 4 | 15.24 | 0.600 | 1089660000 |
| 3 / 6 | 15.24 | 0.600 | 1156240000 |
| 3 / 6 | 15.24 | 0.600 | 1089730000 |
| 3 / 8 | 15.24 | 0.600 | 1156840000 |
| 3 / 8 | 15.24 | 0.600 | 1156850000 |
| 4 / 4 | 22.86 | 0.900 | 1090130000 |
| 4 / 6 | 22.86 | 0.900 | 1090210000 |
| 4 / 8 | 22.86 | 0.900 | 1156890000 |
| 5 / 4 | 30.48 | 1.200 | 1156910000 |
| 5 / 4 | 30.48 | 1.200 | 1090600000 |
| 5 / 6 | 30.48 | 1.200 | 1156930000 |
| 5 / 6 | 30.48 | 1.200 | 1090670000 |
| 5 / 8 | 30.48 | 1.200 | 1156950000 |
| 5 / 8 | 30.48 | 1.200 | 1156980000 |

SV 7.62HP/.../90MSF. SC/..R



Dimensioned drawing

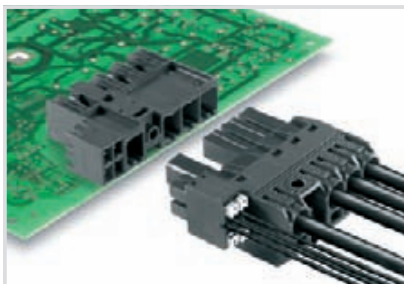


Ordering data

| Solder pin length | | 3.5 mm | |
|-------------------|-----------|-----------|------------|
| Colour | | black | |
| Pitch 7.62 mm | | | |
| Pol. | L1 (inch) | L2 (inch) | Order No. |
| 2 / 4 | 7.62 | 0.300 | 1089510000 |
| 2 / 6 | 7.62 | 0.300 | 1089570000 |
| 2 / 8 | 7.62 | 0.300 | 1156830000 |
| 3 / 4 | 15.24 | 0.600 | 1156250000 |
| 3 / 4 | 15.24 | 0.600 | 1089890000 |
| 3 / 6 | 15.24 | 0.600 | 1156270000 |
| 3 / 6 | 15.24 | 0.600 | 1089970000 |
| 3 / 8 | 15.24 | 0.600 | 1156870000 |
| 3 / 8 | 15.24 | 0.600 | 1156880000 |
| 4 / 4 | 22.86 | 0.900 | 1090370000 |
| 4 / 6 | 22.86 | 0.900 | 1090450000 |
| 4 / 8 | 22.86 | 0.900 | 1156900000 |
| 5 / 4 | 30.48 | 1.200 | 1157000000 |
| 5 / 4 | 30.48 | 1.200 | 1090830000 |
| 5 / 6 | 30.48 | 1.200 | 1157010000 |
| 5 / 6 | 30.48 | 1.200 | 1090900000 |
| 5 / 8 | 30.48 | 1.200 | 1157020000 |
| 5 / 8 | 30.48 | 1.200 | 1157030000 |

Connectors in 7.62 mm pitch Series BV/SV 7.62 – connects up to 6 mm²

SV 7.62HP/..../270 & SC 3.81



Hybrid male header in 270° outlet direction with power and signal contacts. Meets the enhanced requirements of IEC 61800-5-1 for 3 mm touch safety in 400 V TNC (S) networks and enables UL approval for 600 V in line with UL508 / UL840. The middle flange interlocks automatically. It decreases the space required by one pole when compared to other solutions.

- Available with a middle flange (MF).

Product data

IEC: 1000 V / 41 A
UL: 300 V / 35 A

For additional articles and information, refer to catalog.weidmueller.com

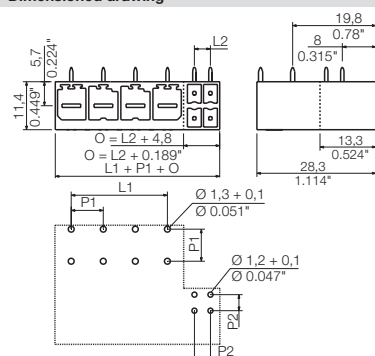
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Rated current related to rated cross-section and 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.

SV 7.62HP/..../270 SC/..R



Dimensioned drawing



F

Technical data

In compliance with IEC 60664-1 / IEC 61984

| | | | |
|-------------------------------|-----------------------|--------------|------------|
| Clamping range, max. | mm ² | | |
| Solid core H05(07) V-U | mm² | | |
| Stranded H07 V-R | | | |
| Flexible H05(07) V-K | mm ² | | |
| Flexible with ferrule | mm ² | | |
| Ferrule with plastic collar | mm ² | | |
| Stripping length | mm | | |
| Screwdriver blade | mm | | |
| According to norm | | | |
| Tightening torque range | Nm | | |
| Rated current, max. | A | 41 | 41 |
| At ambient temperature | 20°C | | 40°C |
| For conductor cross-section | mm ² | | |
| Overvoltage category | | III | III |
| Pollution severity | | 3 | 2 |
| Rated voltage | V | 630 | 630 |
| Rated impulse voltage | kV | 6 | 6 |
| UL / CUL (Use Group) | | B | C |
| Rated voltage | V | 300 | 300 |
| Rated current | A | 35 | 35 |
| AWG conductor | AWG | - | - |
| CSA (Use Group) | | B | C |
| Rated voltage | V | 300 | 300 |
| Rated current | A | 35 | 35 |
| AWG conductor | AWG | - | - |
| General data | | | |
| Type of insulation material | | PA GF | |
| Flammability class UL 94 | | V-0 | |
| Contact base material | | Copper alloy | |
| Material of contact surface | | tinned | |
| Pin dimensions = d | mm | 0.8 x 1.0 | |
| Solder eyelet Ø = D | mm | 1.3 | |
| Solder eyelet Ø tolerance | mm | + 0,1 | |

Accessories

Note: Refer to the Accessories chapter for additional accessories.

| Coding | Order No. |
|-----------------|------------|
| BV/SV 7.62HP KO | 1937590000 |

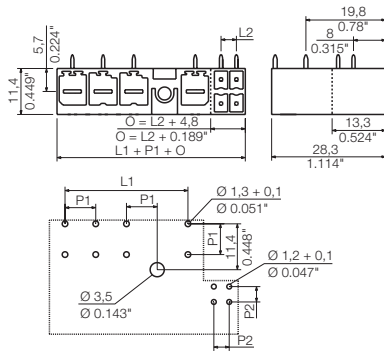
Ordering data

| Solder pin length | | 3.5 mm | | | | |
|-------------------|-----------|-----------|-------|-----------|----|------------|
| Colour | | black | | | | |
| Pitch 7.62 mm | | | | | | |
| Pol. | L1 (inch) | L2 (inch) | Qty. | Order No. | | |
| 2 / 4 | 7.62 | 0.300 | 3.81 | 0.150 | 78 | 1090770000 |
| 2 / 6 | 7.62 | 0.300 | 7.62 | 0.300 | 72 | 1090850000 |
| 2 / 8 | 7.62 | 0.300 | 11.43 | 0.450 | 60 | 1156920000 |
| 3 / 4 | 15.24 | 0.600 | 3.81 | 0.150 | 60 | 1090950000 |
| 3 / 6 | 15.24 | 0.600 | 7.62 | 0.300 | 54 | 1091010000 |
| 3 / 8 | 15.24 | 0.600 | 11.43 | 0.450 | 48 | 1156940000 |
| 4 / 4 | 22.86 | 0.900 | 3.81 | 0.150 | 48 | 1091120000 |
| 4 / 6 | 22.86 | 0.900 | 7.62 | 0.300 | 42 | 1091160000 |
| 4 / 8 | 22.86 | 0.900 | 11.43 | 0.450 | 42 | 1156970000 |
| 5 / 4 | 30.48 | 1.200 | 3.81 | 0.150 | 36 | 1091240000 |
| 5 / 6 | 30.48 | 1.200 | 7.62 | 0.300 | 36 | 1091260000 |
| 5 / 8 | 30.48 | 1.200 | 11.43 | 0.450 | 36 | 1156990000 |

SV 7.62HP/.../270MF. SC/..R



Dimensioned drawing



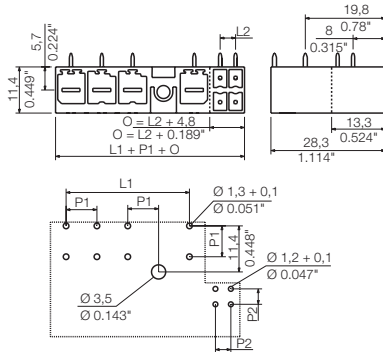
Ordering data

| Solder pin length | | 3.5 mm | |
|-------------------|-----------|-----------|------------|
| Colour | | black | |
| Pitch | | 7.62 mm | |
| Pol. | L1 (inch) | L2 (inch) | Order No. |
| 2 / 4 | 7.62 | 0.300 | 1089260000 |
| 2 / 6 | 7.62 | 0.300 | 1089280000 |
| 2 / 8 | 7.62 | 0.300 | 1156120000 |
| 3 / 4 | 15.24 | 0.600 | 1156140000 |
| 3 / 4 | 15.24 | 0.600 | 1089440000 |
| 3 / 6 | 15.24 | 0.600 | 1156150000 |
| 3 / 6 | 15.24 | 0.600 | 1089490000 |
| 3 / 8 | 15.24 | 0.600 | 1156170000 |
| 3 / 8 | 15.24 | 0.600 | 1156180000 |
| 4 / 4 | 22.86 | 0.900 | 1089820000 |
| 4 / 6 | 22.86 | 0.900 | 1089910000 |
| 4 / 8 | 22.86 | 0.900 | 1156280000 |
| 5 / 4 | 30.48 | 1.200 | 1156300000 |
| 5 / 4 | 30.48 | 1.200 | 1090300000 |
| 5 / 6 | 30.48 | 1.200 | 1156310000 |
| 5 / 6 | 30.48 | 1.200 | 1090380000 |
| 5 / 8 | 30.48 | 1.200 | 1156320000 |
| 5 / 8 | 30.48 | 1.200 | 1156340000 |

SV 7.62HP/.../270MSF. SC/..R



Dimensioned drawing



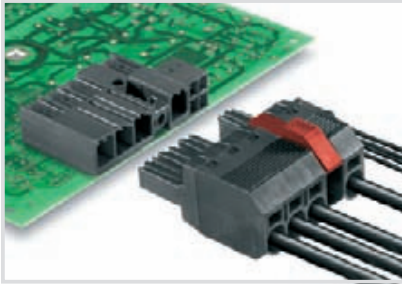
Ordering data

| Solder pin length | | 3.5 mm | |
|-------------------|-----------|-----------|------------|
| Colour | | black | |
| Pitch | | 7.62 mm | |
| Pol. | L1 (inch) | L2 (inch) | Order No. |
| 2 / 4 | 7.62 | 0.300 | 1089340000 |
| 2 / 6 | 7.62 | 0.300 | 1089380000 |
| 2 / 8 | 7.62 | 0.300 | 1156130000 |
| 3 / 4 | 15.24 | 0.600 | 1156190000 |
| 3 / 4 | 15.24 | 0.600 | 1089610000 |
| 3 / 6 | 15.24 | 0.600 | 1156200000 |
| 3 / 6 | 15.24 | 0.600 | 1089670000 |
| 3 / 8 | 15.24 | 0.600 | 1156210000 |
| 3 / 8 | 15.24 | 0.600 | 1156220000 |
| 4 / 4 | 22.86 | 0.900 | 1090060000 |
| 4 / 6 | 22.86 | 0.900 | 1090140000 |
| 4 / 8 | 22.86 | 0.900 | 1156290000 |
| 5 / 4 | 30.48 | 1.200 | 1156370000 |
| 5 / 4 | 30.48 | 1.200 | 1090540000 |
| 5 / 6 | 30.48 | 1.200 | 1156390000 |
| 5 / 6 | 30.48 | 1.200 | 1090610000 |
| 5 / 8 | 30.48 | 1.200 | 1156410000 |
| 5 / 8 | 30.48 | 1.200 | 1156430000 |

Connectors in 7.62 mm pitch

Series BV/SV 7.62 – connects up to 6 mm²

BVF 7.62HP/.. /180 & BCF 3.81



Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

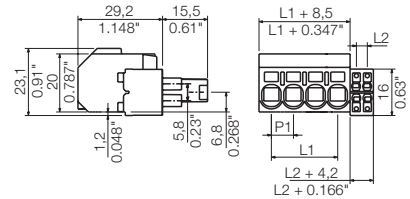
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.

BVF 7.62HP/.. /180 BCF/..R



Dimensioned drawing



F

Technical data

In compliance with IEC 60664-1 / IEC 61984

| | | |
|-------------------------------|-----------------------|-----------------|
| Clamping range, max. | mm ² | 0.5...10 |
| Solid core H05(07) V-U | mm² | 0.5...10 |
| Stranded H07 V-R | | ...10 |
| Flexible H05(07) V-K | mm ² | 0.5... |
| Flexible with ferrule | mm ² | 1.5...4 |
| Ferrule with plastic collar | mm ² | 1.5...6 |
| Stripping length | mm | 12 |
| Screwdriver blade | mm | 0.8 x 4.5 |
| According to norm | | DIN 5264-A |
| Tightening torque range | Nm | |

| | | | |
|-----------------------------|-----------------|------------|-------------|
| Rated current, max. | A | 38 | 34 |
| At ambient temperature | 20°C | | 40°C |
| For conductor cross-section | mm ² | | 6 |
| Overvoltage category | | III | III II |
| Pollution severity | | 3 | 2 2 |
| Rated voltage | V | 800 | 1000 |
| Rated impulse voltage | kV | 8 | 8 6 |

| | | | |
|-----------------------------|------------|--------------|-------------|
| UL / CUL (Use Group) | B | C | D |
| Rated voltage | V | 600 | 600 |
| Rated current | A | 35 | 35 5 |
| AWG conductor | AWG | 24-10 | |
| CSA (Use Group) | B | C | D |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 35 | 35 5 |
| AWG conductor | AWG | 24-10 | |

| | |
|-----------------------------|--------------|
| General data | |
| Type of insulation material | PA GF |
| Flammability class UL 94 | V-0 |
| Contact base material | Copper alloy |
| Material of contact surface | tinned |
| Pin dimensions = d | mm |
| Solder eyelet Ø = D | mm |
| Solder eyelet Ø tolerance | mm |

Accessories

Note: Refer to the Accessories chapter for additional accessories.

| Coding | Order No. |
|--------------------------|------------|
| BV/SV 7.62HP KO | 1937590000 |
| Shielding | |
| BVF 7.62HP SH150 4-6 KIT | 1118480000 |
| BVF 7.62HP SH180 4-6 KIT | 1118470000 |
| BVF 7.62HP SH210 4-6 KIT | 1118490000 |
| Screwdriver | |
| SD 0,8x4,5x125 | 9009020000 |
| Crimping tool | |
| PZ 6/5 | 9011460000 |

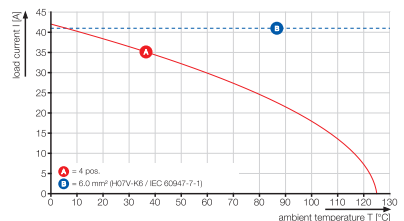
Ordering data

Solder pin length

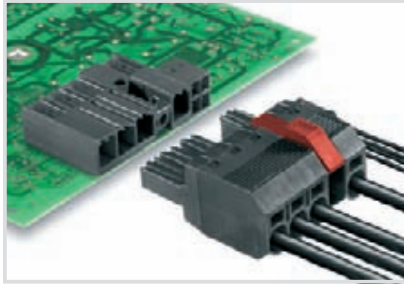
| Colour | black | | | | | |
|--------------|----------------|-----------|-------|-----------|----|------------|
| Pitch | 7.62 mm | | | | | |
| Pol. | L1 (inch) | L2 (inch) | Qty. | Order No. | | |
| 2 / 4 | 7.62 | 0.300 | 3.81 | 0.150 | 65 | 1080550000 |
| 2 / 6 | 7.62 | 0.300 | 7.62 | 0.300 | 55 | 1080320000 |
| 2 / 8 | 7.62 | 0.300 | 11.43 | 0.450 | 50 | 1156440000 |
| 3 / 4 | 15.24 | 0.600 | 3.81 | 0.150 | 50 | 1080490000 |
| 3 / 6 | 15.24 | 0.600 | 7.62 | 0.300 | 45 | 1080570000 |
| 3 / 8 | 15.24 | 0.600 | 11.43 | 0.450 | 40 | 1156450000 |
| 4 / 4 | 22.86 | 0.900 | 3.81 | 0.150 | 40 | 1080510000 |
| 4 / 6 | 22.86 | 0.900 | 7.62 | 0.300 | 35 | 1080440000 |
| 4 / 8 | 22.86 | 0.900 | 11.43 | 0.450 | 30 | 1156470000 |
| 5 / 8 | 30.48 | 1.200 | 11.43 | 0.450 | 25 | 1156480000 |

Representative derating curve

BVF 7.62HP/180 & BCF - SV 7.62HP/90 & SC



BVF 7.62HP/./180MF & BCF 3.81



Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

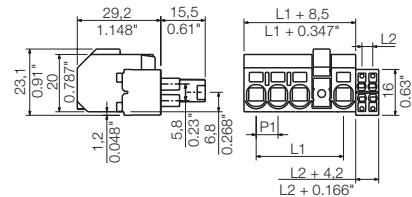
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.

BVF 7.62HP/./180MF, BCF/..R



Dimensioned drawing



Technical data

In compliance with IEC 60664-1 / IEC 61984

| | | |
|-------------------------------|-----------------------|-----------------|
| Clamping range, max. | mm ² | 0.5...10 |
| Solid core H05(07) V-U | mm² | 0.5...10 |
| Stranded H07 V-R | | ...10 |
| Flexible H05(07) V-K | mm ² | 0.5... |
| Flexible with ferrule | mm ² | 1.5...4 |
| Ferrule with plastic collar | mm ² | 1.5...6 |
| Stripping length | mm | 12 |
| Screwdriver blade | mm | 0.8 x 4.5 |
| According to norm | | DIN 5264-A |
| Tightening torque range | Nm | |

| | | | |
|-----------------------------|-----------------|------------|-------------|
| Rated current, max. | A | 38 | 34 |
| At ambient temperature | | 20°C | 40°C |
| For conductor cross-section | mm ² | 6 | |
| Overvoltage category | | III | III |
| Pollution severity | | 3 | 2 |
| Rated voltage | V | 800 | 1000 |
| Rated impulse voltage | kV | 8 | 8 |

| | | | |
|-----------------------------|------------|--------------|------------|
| UL / CUL (Use Group) | B | C | D |
| Rated voltage | V | 600 | 600 |
| Rated current | A | 35 | 35 |
| AWG conductor | AWG | 24-10 | |
| CSA (Use Group) | B | C | D |
| Rated voltage | V | 600 | 600 |
| Rated current | A | 35 | 35 |
| AWG conductor | AWG | 24-10 | |

| | |
|-----------------------------|--------------|
| General data | |
| Type of insulation material | PA GF |
| Flammability class UL 94 | V-0 |
| Contact base material | Copper alloy |
| Material of contact surface | tinned |
| Pin dimensions = d | mm |
| Solder eyelet Ø = D | mm |
| Solder eyelet Ø tolerance | mm |

Accessories

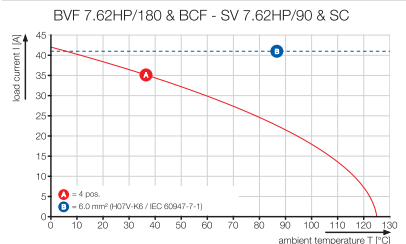
Note: Refer to the Accessories chapter for additional accessories.

| | |
|--------------------------|-------------------|
| Coding | Order No. |
| BV/SV 7.62HP KO | 1937590000 |
| Shielding | |
| BVF 7.62HP SH150 4-6 KIT | 1118480000 |
| BVF 7.62HP SH180 4-6 KIT | 1118470000 |
| BVF 7.62HP SH210 4-6 KIT | 1118490000 |
| Screwdriver | |
| SD 0,8x4,5x125 | 9009020000 |
| Crimping tool | |
| PZ 6/5 | 9011460000 |

Ordering data

| | | | | | | |
|--------------------------|------------------|------------------|-------------|------------------|----|-------------------|
| Solder pin length | | black | | | | |
| Colour | | black | | | | |
| Pitch 7.62 mm | | | | | | |
| Pol. | L1 (inch) | L2 (inch) | Qty. | Order No. | | |
| 2 / 4 | 7.62 | 0.300 | 3.81 | 0.150 | 50 | 1081610000 |
| 2 / 6 | 7.62 | 0.300 | 7.62 | 0.300 | 45 | 1081030000 |
| 2 / 8 | 7.62 | 0.300 | 11.43 | 0.450 | 40 | 1157090000 |
| 3 / 4 | 15.24 | 0.600 | 3.81 | 0.150 | 40 | 1157110000 |
| 3 / 4 | 15.24 | 0.600 | 3.81 | 0.150 | 40 | 1081630000 |
| 3 / 6 | 15.24 | 0.600 | 7.62 | 0.300 | 35 | 1157120000 |
| 3 / 6 | 15.24 | 0.600 | 7.62 | 0.300 | 35 | 1081720000 |
| 3 / 8 | 15.24 | 0.600 | 11.43 | 0.450 | 30 | 1157130000 |
| 3 / 8 | 15.24 | 0.600 | 11.43 | 0.450 | 30 | 1157170000 |
| 4 / 4 | 22.86 | 0.900 | 3.81 | 0.150 | 30 | 1081150000 |
| 4 / 6 | 22.86 | 0.900 | 7.62 | 0.300 | 30 | 1082020000 |
| 4 / 8 | 22.86 | 0.900 | 11.43 | 0.450 | 25 | 1157200000 |
| 5 / 4 | 30.48 | 1.200 | 3.81 | 0.150 | 25 | 1157220000 |
| 5 / 4 | 30.48 | 1.200 | 3.81 | 0.150 | 25 | 1082140000 |
| 5 / 6 | 30.48 | 1.200 | 7.62 | 0.300 | 25 | 1157230000 |
| 5 / 6 | 30.48 | 1.200 | 7.62 | 0.300 | 25 | 1081760000 |
| 5 / 8 | 30.48 | 1.200 | 11.43 | 0.450 | 25 | 1157240000 |
| 5 / 8 | 30.48 | 1.200 | 11.43 | 0.450 | 25 | 1157250000 |

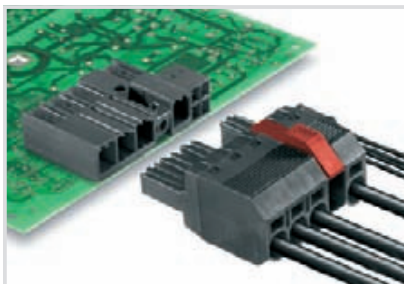
Representative derating curve



Connectors in 7.62 mm pitch

Series BV/SV 7.62 – connects up to 6 mm²

BVF 7.62HP/./180MSF & BCF 3.81



Hybrid female plug with power and signal contacts with PUSH IN connection system. Allows power, signals and shield to be plugged in simultaneously. It is perfect for connecting servo-drives and asynchronous drives. Meets the requirements of UL1059 for 600 V Use Group C. The mating profile ensures touch-safety of > 3 mm in accordance with IEC 61800-5-1. The self-fastening middle flange reduces the space requirements by one pole.

The pluggable shield connection establishes a large contact area on the device housing and does not need to be screwed on separately.

Product data

IEC: 1000 V / 38 A / 0.5 - 10 mm²
UL: 600 V / 35 A / AWG 24 - 10

For additional articles and information, refer to catalog.weidmueller.com

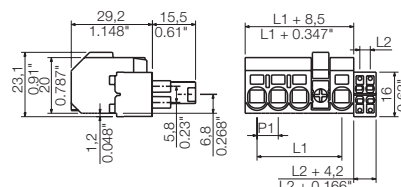
Note:

- Technical specifications refer to the power contacts
- Technical specifications of signal contacts: 50V / 5A
- Additional colours on request
- Rated current related to rated cross-section and min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.

BVF 7.62HP/./180MSF, BCF/./R



Dimensioned drawing



F

Technical data

In compliance with IEC 60664-1 / IEC 61984

| | | |
|-------------------------------|-----------------------|-----------------|
| Clamping range, max. | mm ² | 0.5...10 |
| Solid core H05(07) V-U | mm² | 0.5...10 |
| Stranded H07 V-R | mm ² | ...10 |
| Flexible H05(07) V-K | mm ² | 0.5... |
| Flexible with ferrule | mm ² | 1.5...4 |
| Ferrule with plastic collar | mm ² | 1.5...6 |
| Stripping length | mm | 12 |
| Screwdriver blade | mm | 0.8 x 4.5 |
| According to norm | | DIN 5264-A |

| | | |
|-----------------------------|-----------------|------------------------------------|
| Tightening torque range | Nm | |
| Rated current, max. | A | 38 34 |
| At ambient temperature | 20°C | 40°C |
| For conductor cross-section | mm ² | 6 |
| Overvoltage category | III | III II |
| Pollution severity | 3 | 2 2 |
| Rated voltage | V | 800 1000 1000 |
| Rated impulse voltage | kV | 8 8 6 |

| | | | |
|-----------------------------|------------|--------------|-----------------------|
| UL / CUL (Use Group) | B | C | D |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 35 | 35 5 |
| AWG conductor | AWG | 24-10 | |
| CSA (Use Group) | B | C | D |
| Rated voltage | V | 600 | 600 600 |
| Rated current | A | 35 | 35 5 |
| AWG conductor | AWG | 24-10 | |

| | |
|-----------------------------|--------------|
| General data | |
| Type of insulation material | PA GF |
| Flammability class UL 94 | V-0 |
| Contact base material | Copper alloy |
| Material of contact surface | tinned |
| Pin dimensions = d | mm |
| Solder eyelet Ø = D | mm |
| Solder eyelet Ø tolerance | mm |

Accessories

Note: Refer to the Accessories chapter for additional accessories.

| Coding | Order No. |
|--------------------------|------------|
| BV/SV 7.62HP KO | 1937590000 |
| Shielding | |
| BVF 7.62HP SH150 4-6 KIT | 1118480000 |
| BVF 7.62HP SH180 4-6 KIT | 1118470000 |
| BVF 7.62HP SH210 4-6 KIT | 1118490000 |
| Screwdriver | |
| SD 0,8x4,5x125 | 9009020000 |
| Crimping tool | |
| PZ 6/5 | 9011460000 |

Ordering data

| Solder pin length | | | | | | |
|-------------------|-----------|-----------|-------|-----------|----|------------|
| Colour | | | | | | black |
| Pitch 7.62 mm | | | | | | |
| Pol. | L1 (inch) | L2 (inch) | Qty. | Order No. | | |
| 2 / 4 | 7.62 | 0.300 | 3.81 | 0.150 | 50 | 1081930000 |
| 2 / 6 | 7.62 | 0.300 | 7.62 | 0.300 | 45 | 1082080000 |
| 2 / 8 | 7.62 | 0.300 | 11.43 | 0.450 | 40 | 1157100000 |
| 3 / 4 | 15.24 | 0.600 | 3.81 | 0.150 | 40 | 1157440000 |
| 3 / 4 | 15.24 | 0.600 | 3.81 | 0.150 | 40 | 1082110000 |
| 3 / 6 | 15.24 | 0.600 | 7.62 | 0.300 | 35 | 1157450000 |
| 3 / 6 | 15.24 | 0.600 | 7.62 | 0.300 | 35 | 1081730000 |
| 3 / 8 | 15.24 | 0.600 | 11.43 | 0.450 | 30 | 1157470000 |
| 3 / 8 | 15.24 | 0.600 | 11.43 | 0.450 | 30 | 1157190000 |
| 4 / 4 | 22.86 | 0.900 | 3.81 | 0.150 | 30 | 1081660000 |
| 4 / 6 | 22.86 | 0.900 | 7.62 | 0.300 | 30 | 1081750000 |
| 4 / 8 | 22.86 | 0.900 | 11.43 | 0.450 | 25 | 1157210000 |
| 5 / 4 | 30.48 | 1.200 | 3.81 | 0.150 | 25 | 1157270000 |
| 5 / 6 | 30.48 | 1.200 | 7.62 | 0.300 | 25 | 1157280000 |
| 5 / 8 | 30.48 | 1.200 | 11.43 | 0.450 | 25 | 1157300000 |
| 5 / 8 | 30.48 | 1.200 | 11.43 | 0.450 | 25 | 1157290000 |

Representative derating curve

