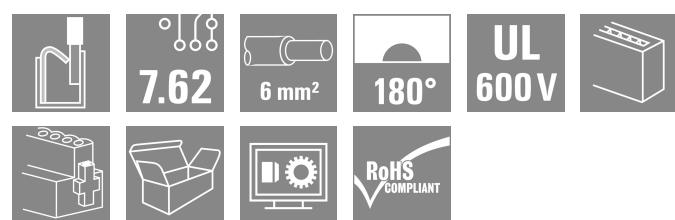
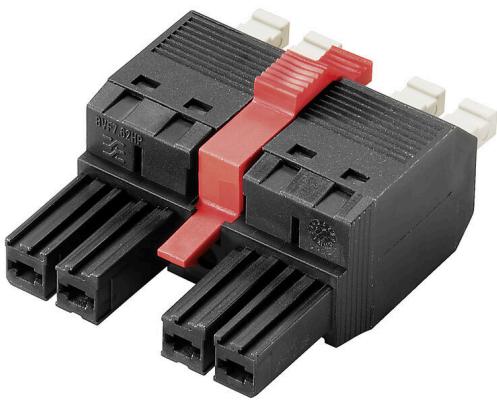


**BVFL 7.62HP/04/180MF3 SN BK BX**

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

[www.weidmueller.com](http://www.weidmueller.com)



180° female plug with PUSH IN connection system with adjustable actuator (pusher) for field wiring 6 mm<sup>2</sup> in a 7.62 pitch. Meets the requirements of UL 1059 600 V Class C ad IEC 61800-5-1. Also ideal as a touch-safe solution for the power output. The self-locking middle flange which can optionally also be screwed, reduces the space requirements by one pitch width in comparison with conventional solutions. Variants: without flange, external flange, middle flange with snap-on mechanism and optionally additional screw mount

**General ordering data**

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN with actuator, Clamping range, max. : 6 mm <sup>2</sup> , Box
Order No.	<a href="#">1547540000</a>
Type	BVFL 7.62HP/04/180MF3 SN BK BX
GTIN (EAN)	4050118353310
Qty.	48 items
Product data	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 600 V / 39 A / AWG 24 - AWG 8
Packaging	Box

## BVFL 7.62HP/04/180MF3 SN BK BX

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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	52.1 mm	Depth (inches)	2.0512 inch
Height	20.6 mm	Height (inches)	0.811 inch
Net weight	11.88 g		

## Environmental Product Compliance

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

## System Parameters

Product family	OMNIMATE Power - series BV/SV 7.62HP	Type of connection	Field connection
Wire connection method	PUSH IN with actuator	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Conductor outlet direction	180°
Number of poles	4	L1 in mm	30.48 mm
L1 in inches	1.200 "	Number of rows	1
Pin series quantity	1	Rated cross-section	6 mm <sup>2</sup>
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	Touch-safe protection acc. to DIN VDE 0470	IP 20
Protection degree	IP20	Volume resistance	4.50 mΩ
Can be coded	Yes	Stripping length	12 mm
Screwdriver blade	0.6 x 3.5	Plugging cycles	25

## Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of plug contact	6...8 µm Sn glossy
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	125 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	125 °C

## Conductors suitable for connection

Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	6 mm <sup>2</sup>
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	6 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	6 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm <sup>2</sup> min.	

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## Technical data

w. plastic collar ferrule, DIN 46228 pt 4, 6 mm<sup>2</sup>

max.

w. wire end ferrule, DIN 46228 pt 1, 0.5 mm<sup>2</sup>

min.

w. wire end ferrule, DIN 46228 pt 1, 6 mm<sup>2</sup>

max.

Clampable conductor

Cross-section for conductor connection	Type	fine-wired
	nominal	0.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 14 mm
	Recommended wire-end ferrule	<a href="#">H0,5/12 OR</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	0.75 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 14 mm
	Recommended wire-end ferrule	<a href="#">H0,75/18 W</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	1 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 15 mm
	Recommended wire-end ferrule	<a href="#">H1,0/18 GE</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	1.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 12 mm
	Recommended wire-end ferrule	<a href="#">H1,5/12</a>
	Stripping length	nominal 15 mm
	Recommended wire-end ferrule	<a href="#">H1,5/18D SW</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	2.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 12 mm
	Recommended wire-end ferrule	<a href="#">H2,5/12</a>
	Stripping length	nominal 14 mm
	Recommended wire-end ferrule	<a href="#">H2,5/19D BL</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	4 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 12 mm
	Recommended wire-end ferrule	<a href="#">H4,0/12</a>
	Stripping length	nominal 14 mm
	Recommended wire-end ferrule	<a href="#">H4,0/20D GR</a>
Cross-section for conductor connection	Type	fine-wired
	nominal	6 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 12 mm
	Recommended wire-end ferrule	<a href="#">H6,0/12</a>
	Stripping length	nominal 14 mm
	Recommended wire-end ferrule	<a href="#">H6,0/20 SW</a>

Reference text

The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.

## BVFL 7.62HP/04/180MF3 SN BK BX

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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)	38 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	1000 V	Rated voltage for surge voltage class / pollution degree III/3	800 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	8 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV	Short-time withstand current resistance	3 x 1s with 420 A
Creepage distance, min.	12.7 mm	Clearance, min.	10.4 mm

## Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-70176790
Rated voltage (Use group B / CSA)	600 V	Rated voltage (Use group C / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group B / CSA)	33 A
Rated current (Use group C / CSA)	33 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Use group B / UL 1059)	39 A
Rated current (Use group C / UL 1059)	39 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## Packing

Packaging	Box	VPE length	352.00 mm
VPE width	138.00 mm	VPE height	61.00 mm

## 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>• Additional variants on request</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• P on drawing = pitch</li> <li>• 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.</li> <li>• Additional pole combinations on request</li> <li>• 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</li> <li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul>

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**Technical data****Classifications**

ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

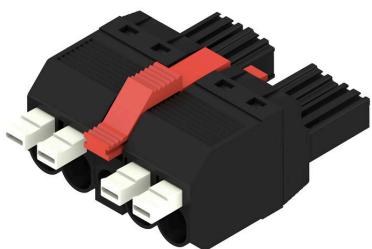
## BVFL 7.62HP/04/180MF3 SN BK BX

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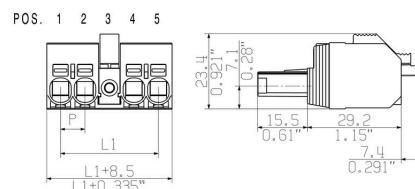
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## Drawings

## Product image



## Dimensional drawing

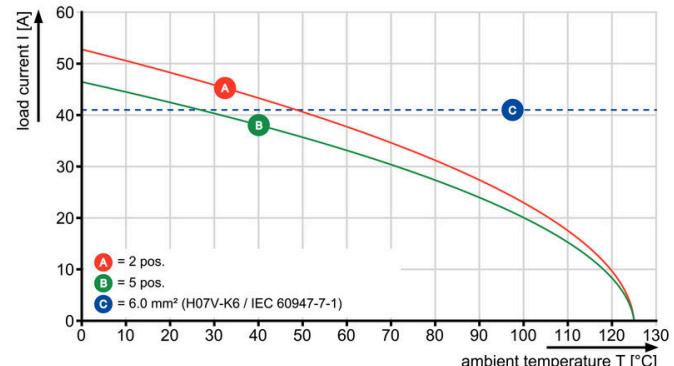


## Connection diagram

6	M(S)F6	o	o	o	o	o	x	o
6	M(S)F5	o	o	o	o	x	o	o
6	M(S)F4	o	o	o	x	o	o	o
6	M(S)F3	o	o	x	o	o	o	o
6	M(S)F2	x	o	o	o	o	o	o
5	M(S)F5	o	o	o	o	x	o	o
5	M(S)F4	o	o	o	x	o	o	o
5	M(S)F3	o	o	x	o	o	o	o
5	M(S)F2	x	o	o	o	o	o	o
4	M(S)F4	o	o	o	x	o	o	o
4	M(S)F3	o	o	x	o	o	o	o
4	M(S)F2	x	o	o	o	o	o	o
3	M(S)F3	o	o	x	o	o	o	o
3	M(S)F2	x	o	o	o	o	o	o
2	M(S)F2	x	o	o	o	o	o	o
		1	2	3	4	5	6	7
NO OF POLES	X = MIDDLE FLANGE POSITION	POS. 1 2 3 4 5						

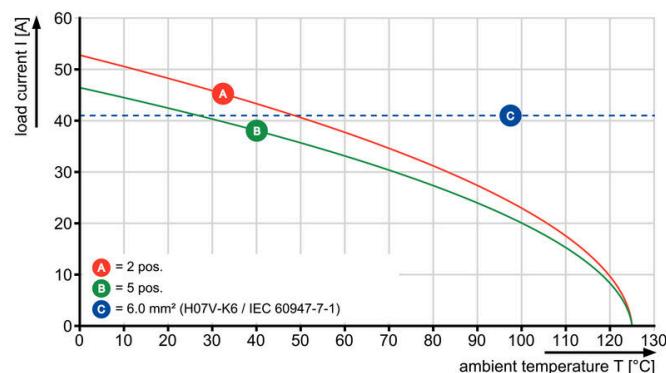
## Graph

BVF 7.62HP/..180 - SV 7.62HP/..90



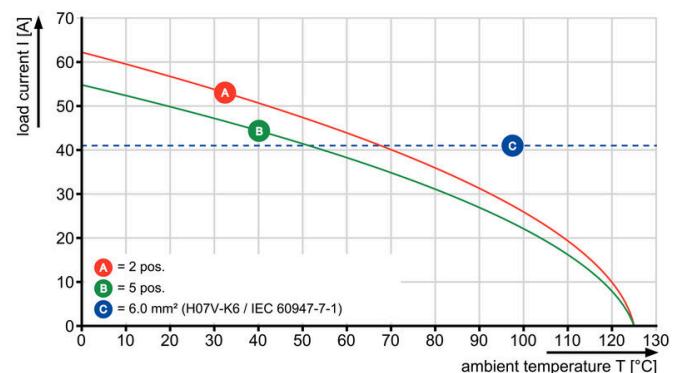
## Graph

BVF 7.62HP/..180 - SV 7.62HP/..270



## Graph

BVF 7.62HP/..180 - SVF 7.62HP/..180



## BVFL 7.62HP/04/180MF3 SN BK BX

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## Drawings

### Product benefits



Secure connection of small conductors  
PUSH IN WIRE READY

### Product benefits



Installation without tools  
Outlet direction: 90° und 180°

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## Accessories

### Coding elements



The pluggable connections for power electronics - optimised for modern drive technologies, e.g. motor starters, frequency converters and servo-controllers. OMNIMATE Power sets the new standard - with increased safety and innovative solutions such as the pluggable shield, integrated signal contacts and one-handed operation.

The three product lines offer you further advantages:

- Application-oriented scalability: from the compact 4 mm<sup>2</sup> connector for 29 A (IEC) or 20 A (UL) up to the sturdy 16 mm<sup>2</sup> connector for 76 A (IEC) or 54 A (UL)
- Unlimited usage up to 1,000 V (IEC) or 600 V (UL)
- A variety of application optimised mounting options

Our service:

Design your individual connectors simply by using the product configurator.

### General ordering data

Type	BV/SV 7.62HP KO	Version
Order No.	<a href="#">1937590000</a>	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4032248608881	of poles: 1
Qty.	50 ST	

### Crimping tools



Crimping tools for wire end ferrules, with and without plastic collars

- Ratchet guarantees precise crimping
- Release option in the event of incorrect operation

### General ordering data

Type	PZ 6/5	Version
Order No.	<a href="#">9011460000</a>	Pressing tool, Crimping tool for wire-end ferrules, 0.25mm <sup>2</sup> , 6mm <sup>2</sup> ,
GTIN (EAN)	4008190165352	Trapezoidal indentation crimp
Qty.	1 ST	

### Coupling set



With the aid of the SVF/BVF 7.62HP COUPLE SET the two plug-in elements can be connected back-to-back to form a 2-row connector with a maximum of 2 x 4 poles.

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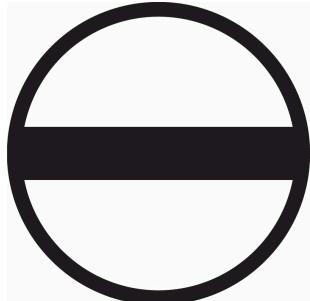
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## Accessories

### General ordering data

Type	SVF/BVF 7.62HP COUPLE S...	Version
Order No.	<a href="#">1440850000</a>	PCB plug-in connector, Accessories, Mounting block, black
GTIN (EAN)	4050118247060	
Qty.	20 ST	

### Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

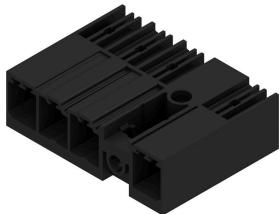
### General ordering data

Type	SDS 0.6X3.5X100	Version
Order No.	<a href="#">9008330000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056286	
Qty.	1 ST	

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**Counterpart****SV 7.62HP 90MSF SN**

Single-row, high-current and high-performance male headers for side-by-side mounting without sacrificing any poles or with flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity and additional fastening in the flange.

**General ordering data**

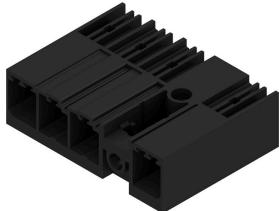
Type	SV 7.62HP/04/90MSF3 3.5...	Version
Order No.	<a href="#">1048580000</a>	PCB plug-in connector, male header, closed side, Middle screw flange,
GTIN (EAN)	4032248786442	THT solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin
Qty.	48 ST	length (l): 3.5 mm, tinned, black, Box

**SVF 7.62HP/180MSF**

180° inverted inverse voltage-safe male header with PUSH IN connection technology for field wiring. With automatically locking middle flange for field wiring in 6 mm<sup>2</sup> with 7.62 pitch. Also ideal as a touch-safe solution for inverse voltages. Meets the requirements of UL1059 600 V class C and IEC 61800-5-1. On request, also available without middle flange.

**General ordering data**

Type	SVF 7.62HP/04/180MSF3 S...	Version
Order No.	<a href="#">1061140000</a>	PCB plug-in connector, male plug, 7.62 mm, Number of poles:
GTIN (EAN)	4032248810628	4, 180°, PUSH IN without actuator, Tension-clamp connection,
Qty.	40 ST	Clamping range, max. : 10 mm <sup>2</sup> , Box

**SV-SMT 7.62IT 90MSF SN BX**

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 self-snapping 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.

**BVFL 7.62HP/04/180MF3 SN BK BX**

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**Counterpart****General ordering data**

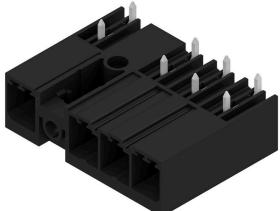
Type	SV-SMT 7.62IT/04/90MSF3...	Version
Order No.	<a href="#">2499840000</a>	PCB plug-in connector, male header, Middle screw flange, THT/THR
GTIN (EAN)	4050118513264	solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin
Qty.	48 ST	length (l): 2.6 mm, tinned, black, Box
Type	SV-SMT 7.62IT/04/90MSF3...	Version
Order No.	<a href="#">2498720000</a>	PCB plug-in connector, male header, Middle screw flange, THT/THR
GTIN (EAN)	4050118511925	solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin
Qty.	50 ST	length (l): 3.5 mm, tinned, black, Box

**SV 7.62HP 180MF SN**

180° male header with middle flange with a 7.62 pitch. Meets the requirements of IEC 61800-5-1 and enables UL approval as per UL840 600 V. Without a female header, the mating profile guarantees minimum touch safety of >3 mm with 20 N pressure on the test finger. The automatically locking middle flange which can optionally also be screwed, reduces space requirements by one pitch width in comparison with conventional solutions. On request: available with screw flange or without flange.

**General ordering data**

Type	SV 7.62HP/04/180MF3 3.5...	Version
Order No.	<a href="#">1048530000</a>	PCB plug-in connector, male header, closed side, Middle flange, THT
GTIN (EAN)	4032248786497	solder connection, 7.62 mm, Number of poles: 4, 180°, Solder pin
Qty.	48 ST	length (l): 3.5 mm, tinned, black, Box

**SV 7.62HP 270MF SN**

270° male header with middle flange with a 7.62 pitch. Meets the requirements of IEC 61800-5-1 and enables UL approval as per UL840 600 V. Without a female header, the mating profile guarantees minimum touch safety of >3 mm with 20 N pressure on the test finger. The automatically locking middle flange which can optionally also be screwed, reduces space requirements by one pitch width in comparison with conventional solutions.

On request: available with screw flange or without flange.

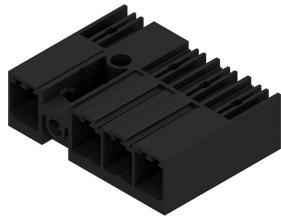
**General ordering data**

Type	SV 7.62HP/04/270MF3 3.5...	Version
Order No.	<a href="#">1048550000</a>	PCB plug-in connector, male header, closed side, Middle flange, THT
GTIN (EAN)	4032248786473	solder connection, 7.62 mm, Number of poles: 4, 270°, Solder pin
Qty.	48 ST	length (l): 3.5 mm, tinned, black, Box

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**Counterpart****SV 7.62HP 90MF SN**

90° male header with middle flange with a 7.62 pitch.  
 Meets the requirements of IEC 61800-5-1 and enables  
 UL approval as per UL840 600 V.  
 Without a female header, the mating profile guarantees  
 minimum touch safety of >3 mm with 20 N pressure on  
 the test finger.  
 The automatically locking middle flange which can  
 optionally also be screwed, reduces space requirements  
 by one pitch width in comparison with conventional  
 solutions.  
 On request: available with screw flange or without flange.

**General ordering data**

Type	SV 7.62HP/04/90MF3 3.5...	Version
Order No.	<a href="#">1048570000</a>	PCB plug-in connector, male header, closed side, Middle flange, THT
GTIN (EAN)	4032248786459	solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin
Qty.	48 ST	length (l): 3.5 mm, tinned, black, Box

**SVF 7.62HP/180MF**

180° inverted inverse voltage-safe male header with  
 PUSH IN connection technology for field wiring.  
 With automatically locking middle flange for field wiring  
 in 6 mm<sup>2</sup> with 7.62 pitch.  
 Also ideal as a touch-safe solution for inverse voltages.  
 Meets the requirements of UL1059 600 V class C and  
 IEC 61800-5-1.  
 On request, also available without middle flange.

**General ordering data**

Type	SVF 7.62HP/04/180MF3 SN...	Version
Order No.	<a href="#">1061050000</a>	PCB plug-in connector, male plug, 7.62 mm, Number of poles:
GTIN (EAN)	4032248810697	4, 180°, PUSH IN without actuator, Tension-clamp connection,
Qty.	40 ST	Clamping range, max.: 10 mm <sup>2</sup> , Box

**SVF 7.62HP/180SFMF**

180° inverted male header with PUSH IN connection  
 technology for field wiring in 6 mm<sup>2</sup> with 7.62 pitch as  
 "three-flange variant" for housing passage. Suitable for  
 housings with a max. wall thickness of 2 mm.  
 Also perfect as a finger-safe solution for inverse voltages.  
 Meets the requirements of UL1059 600 V class C and  
 IEC 61800-5-1.

**BVFL 7.62HP/04/180MF3 SN BK BX**

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**Counterpart****General ordering data**

Type	SVF 7.62HP/04/180SFMF3 ...	Version
Order No.	<a href="#">1427260000</a>	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN without actuator, Tension-clamp connection,
GTIN (EAN)	4050118231298	Clamping range, max.: 10 mm <sup>2</sup> , Box
Qty.	25 ST	

**SV-SMT 7.62IT 90MF SN BX**

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 self-  
 snapping 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**

Type	SV-SMT 7.62IT/04/90MF3 ...	Version
Order No.	<a href="#">2499750000</a>	PCB plug-in connector, male header, Middle flange, THT/THR solder
GTIN (EAN)	4050118513172	connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	48 ST	2.6 mm, tinned, black, Box

**SV-SMT 7.62IT 90MF SN RL**

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 according to IEC 61800-5-1 (+ 5.5 mm). The self-  
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 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.

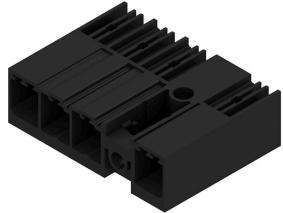
**General ordering data**

Type	SV-SMT 7.62IT/04/90MF3 ...	Version
Order No.	<a href="#">2536580000</a>	PCB plug-in connector, male header, Middle flange, THT/THR solder
GTIN (EAN)	4050118548631	connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	110 ST	2.6 mm, tinned, black, Tape

**BVFL 7.62HP/04/180MF3 SN BK BX**

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

[www.weidmueller.com](http://www.weidmueller.com)

**Counterpart****SV-SMT 7.62IT 90MF SN BX**

OMNIMATE Power for IT networks – scalable to 50 kVA  
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 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 self-  
 snapping 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**

Type	SV-SMT 7.62IT/04/90MF3 ...	Version
Order No.	<a href="#">2498620000</a>	PCB plug-in connector, male header, Middle flange, THT/THR solder
GTIN (EAN)	4050118511826	connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (l):
Qty.	50 ST	3.5 mm, tinned, black, Box