

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

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Product image























180° female header with PUSH IN connection technology for field wiring in 6 mm² with 7.62 pitch.

Meets the requirements as per UL1059 600 V class C and IEC 61800-5-1. Ideal touch-safe solution for the power output.

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

Variants: without flange, external flange, middle flange with detent fastening and optionally additional screw mount.

General ordering data

Туре	BVF 7.62HP/04/180MSF3 SN BK BX
Order No.	<u>1060670000</u>
Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN, Clamping range, max. : 10 mm², Box
GTIN (EAN)	4032248809585
Oty.	40 pc(s).
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm ² UL: 600 V / 39 A / AWG 24 - AWG 8
Packaging	Вох

Creation date May 1, 2020 1:49:49 PM CEST



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Technical data

Dimensions and weights

Height	22.9 mm	Height (inches)	0.902 inch
Depth	47.7 mm	Depth (inches)	1.878 inch
Net weight	25.85 g		

System Parameters

Product family	OMNIMATE Power - series	Type of connection	
,	BV/SV 7.62HP	,,	Field connection
Wire connection method	PUSH IN	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.3 inch	Conductor outlet direction	180°
Number of poles	4	L1 in mm	30.48 mm
L1 in inches	1.2 inch	Number of rows	1
Pin series quantity	1	Rated cross-section	6 mm²
Touch-safe protection acc. to DII	N VDE	Touch-safe protection acc. to DIN	VDE
57 106	Safe from finger touch	0470	IP 20
Volume resistance	4.50 mΩ	Can be coded	Yes
Stripping length	12 mm	Tightening torque for screw flange	e, min. 0.2 Nm
Tightening torque for screw flan	ge, max. 0.3 Nm	Screwdriver blade	0.6 x 3.5
Plugging cycles	25	Plugging force/pole, max.	17 N
Pulling force/pole, max.	15 N		

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 500	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	GWFI	960 °C
Contact material	Copper alloy	Contact surface	tinned
Layer structure of plug contact	6-8 µm Sn glossy	Storage temperature, min.	-25 °C
Storage temperature, max.	50 °C	Max. relative humidity during storage	70 %
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 ²		
Clamping range, max.	10 mm ²		
Solid, min. H05(07) V-U	0.5 mm ²		
Solid, max. H05(07) V-U	10 mm ²		
Stranded, max. H07V-R	10 mm ²		
Flexible, min. H05(07) V-K	0.5 mm ²		
Flexible, max. H05(07) V-K	10 mm ²		
w. plastic collar ferrule, DIN 46228 pt min.	4, 0.5 mm²		
w. plastic collar ferrule, DIN 46228 pt max.	4, 6 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²		
w. wire end ferrule, DIN 46228 pt 1, max.	10 mm ²		



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Clampable conductor	Cross-section for conductor connection	Туре	fine-wired		
		nominal	0.5 mm ²		
	wire end ferrule	Stripping length	nominal 14 mm		
		Recommended wire- end ferrule	H0,5/12 OR		
	Cross-section for conductor connection	Туре	fine-wired		
		nominal	0.75 mm ²		
	wire end ferrule	Stripping length	nominal 14 mm		
		Recommended wire- end ferrule	H0,75/18 W		
	Cross-section for conductor connection	Type nominal	fine-wired 1 mm ²		
	wire end ferrule	Stripping length	nominal 15 mm		
	wife end ferrule	Recommended wire-	H1,0/18 GE		
	Cross-section for conductor connection	end ferrule Type	fine-wired		
		nominal	1.5 mm ²		
	wire end ferrule	Stripping length	nominal 12 mm		
		Recommended wire- end ferrule	H1,5/12		
		Stripping length	nominal 15 mm		
		Recommended wire- end ferrule	H1,5/18D SW		
	Cross-section for conductor connection	Туре	fine-wired		
		nominal	2.5 mm ²		
	wire end ferrule	Stripping length	nominal 12 mm		
		Recommended wire- end ferrule	H2,5/12		
		Stripping length	nominal 14 mm		
		Recommended wire- end ferrule	H2,5/19D BL		
	Cross-section for conductor connection	Туре	fine-wired		
		nominal	4 mm ²		
	wire end ferrule	Stripping length	nominal 12 mm		
		Recommended wire- end ferrule	H4,0/12		
		Stripping length	nominal 14 mm		
		Recommended wire- end ferrule	H4,0/20D GR		
	Cross-section for conductor connection	Туре	fine-wired		
		nominal	6 mm ²		
	wire end ferrule	Stripping length	nominal 12 mm		
		Recommended wire- end ferrule	H6,0/12		
		Stripping length	nominal 14 mm		
		Recommended wire-	H6,0/20 SW		
	Cross-section for conductor connection	Type	fine-wired		
	Cross-section for conductor connection	nominal	10 mm ²		
	wire end ferrule	Stripping length	nominal 12 mm		
	wile ella lellale	Recommended wire-	H10,0/12		
		end ferrule	1110,0/12		
ference text	The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrule is to be chosen depending on the product and the rated voltage.				



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Technical data

Rated data acc. to IEC

tested acc. to standard		Rated current, min. number of poles		
tested dec. to standard	IEC 60664-1, IEC 61984	(Tu=20°C)	57 A	
Rated current, max. number of poles		Rated current, min. number of poles		
(Tu=20°C)	51 A	(Tu=40°C)	57 A	
Rated current, max. number of poles		Rated voltage for surge voltage class /		
(Tu=40°C)	45 A	pollution degree II/2	1,000 V	
Rated voltage for surge voltage class /		Rated voltage for surge voltage class /		
pollution degree III/2	1,000 V	pollution degree III/3	800 V	
Rated impulse voltage for surge voltage		Rated impulse voltage for surge voltage		
class/ pollution degree II/2	6 kV	class/ pollution degree III/2	8 kV	
Rated impulse voltage for surge voltage		Short-time withstand current resistance		
class/ contamination degree III/3	8 kV		3 x 1s with 420 A	
Clearance, min.	10.4 mm	Creepage distance, min.	12.7 mm	

Rated data acc. to CSA

Institute (CSA) Certificate No. (CSA)

Rated voltage (Use group B / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V
Rated current (Use group C / CSA)	33 A
Wire cross-section, AWG, min.	AWG 24
Reference to approval values	Specifications are

Rated voltage (Use group C / CSA) 600 V
Rated current (Use group B / CSA) 33 A
Rated current (Use group D / CSA) 5 A
Wire cross-section, AWG, max. AWG 8

200039-1121690

Rated data acc. to UL 1059

Institute (cURus) Certificate No. (cURus)

maximum values, details - see approval certificate.

see approval certificate.

	· ·
Rated voltage (Use group B / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V
Rated current (Use group C / UL 1059)	39 A
Wire cross-section, AWG, min.	AWG 24
Reference to approval values	Specifications are maximum values, details -

	E60693
Rated voltage (Use group C / UL 1059)	600 V
Rated current (Use group B / UL 1059)	39 A
Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, max.	AWG 8

Packing

Packaging	Box	VPE length	55 mm
VPE width	135 mm	VPE height	350 mm

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
eClass 9.0	27-44-03-09	eClass 9.1	27-44-03-09
eClass 10.0	27-44-03-09		



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Technical data

Notes

Notes

- · Additional colours on request
- · Wire end ferrule with plastic collar to DIN 46228/4
- Wire end ferrule without plastic collar to DIN 46228/1
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.
- MFX and MSFX: X= Position of the middle flange e.g. MF2, MSF3
- · Versions with pusher, see BVFL

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.

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Brochure/Catalogue	FL DRIVES EN
	MB DEVICE MANUF. EN
	FL DRIVES DE
	CAT 2 PORTFOLIOGUIDE EN
	FL HEATING ELECTR EN
	FL APPL_INVERTER EN
	FL BASE STATION EN
	<u>FL ELEVATOR EN</u>
	FL POWER SUPPLY EN
	FL 72H SAMPLE SER EN
	PO OMNIMATE EN
Engineering Data	EPLAN, WSCAD
Engineering Data	<u>STEP</u>
White paper power electronics	
connected correctly	Download Whitepaper
User Documentation	Operating Instruction BVF
	QR-Code product handling video
White paper UL 600 V	<u>Download Whitepaper</u>
White paper PUSH IN wire connection	<u>Download Whitepaper</u>



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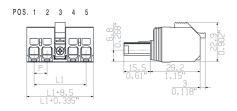
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Drawings

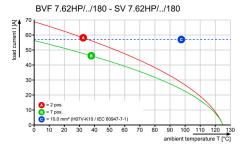
Dimensional drawing



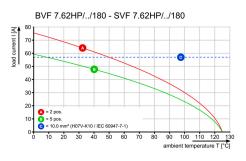
Connection diagram

6	M(S)F6	0	0	0	0	0	Х	0
6	M(S)F5	0	0	0	0	Х	0	0
6	M(S)F4	0	0	0	X	0	0	0
6	M(S)F3	0	0	Х	0	0	0	0
6	M(S)F2	0	Х	0	0	0	0	0
5	M(S)F5	0	0	0	0	Х	0	
5	M(S)F4	0	0	0	Х	0	0	
5	M(S)F3	0	0	Х	0	0	0	
5	M(S)F2	0	Х	0	0	0	0	
4	M(S)F4	0	0	0	Х	0		
4	M(S)F3	0	0	Х	0	0		
4	M(S)F2	0	X	0	0	0		
3	M(S)F3	0	0	Х	0			
3	M(S)F2	0	Х	0	0			
2	M(S)F2	0	X	0				
		1	2	3	4	5	6	7
NO OF POLES	X = MIDDLE FLANGE POSITION	POS. 1 2 3 4 5						

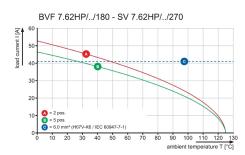
Graph



Graph



Graph



Product benefits



Outlet direction: 90° und 180°



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Mating connector (conditionally pluggable)

SV-SMT 7.62IT 90MF SN RL



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

Туре	SV-SMT 7.62IT/04/90MF3	Version	Product data	Packaging
Order No.	<u>2536580000</u>	PCB plug-in connector, male header, Middle flange, THT/THR solder	IEC: 1000 V / 41 A	Tape
GTIN (EAN)	4050118548631	connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (I):	UL: 300 V / 40.5 A	
Qty.	110 pc(s).	2.6 mm, tinned, black, Tape		

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.

Туре	SV 7.62HP/04/270MF3 3.5	Version	Product data	Packaging
Order No.	<u>1048550000</u>	PCB plug-in connector, male header, closed side, Middle flange, THT	IEC: 1000 V / 57 A	Box
GTIN (EAN)	4032248786473	solder connection, 7.62 mm, Number of poles: 4, 270°, Solder pin	UL: 300 V / 40.5 A	
Qty.	48 pc(s).	length (I): 3.5 mm, tinned, black, Box		



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Mating connector (conditionally pluggable)

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

Туре	SV 7.62HP/04/180MF3 3.5	Version	Product data	Packaging
Order No.	1048530000	PCB plug-in connector, male header, closed side, Middle flange, THT	IEC: 1000 V / 57 A	Box
GTIN (EAN)	4032248786497	solder connection, 7.62 mm, Number of poles: 4, 180°, Solder pin	UL: 300 V / 40.5 A	
Qty.	48 pc(s).	length (I): 3.5 mm, tinned, black, Box		

SV-SMT 7.62IT 90MF SN BX



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Туре	SV-SMT 7.62IT/04/90MF3	Version	Product data	Packaging
Order No.	2499750000	PCB plug-in connector, male header, Middle flange, THT/THR solder	IEC: 1000 V / 41 A	Box
GTIN (EAN)	4050118513172	connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (I):	UL: 300 V / 40.5 A	
Qty.	48 pc(s).	2.6 mm, tinned, black, Box		
Туре	SV-SMT 7.62IT/04/90MF3	Version	Product data	Packaging
Order No.	2498620000	PCB plug-in connector, male header, Middle flange, THT/THR solder	IEC: 1000 V / 41 A	Box
GTIN (EAN)	4050118511826	connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (I):	UL: 300 V / 40.5 A	
GIIIV (EAIV)	1000110011020	commenter, 7:02 mm, ramper of person 1, 00 7 certain printering in (1).	OL: 000 V / 10.071	



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Mating connector (conditionally pluggable)

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 mm² 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

Туре	SVF 7.62HP/04/180MF3 SN	Version	Product data	Packaging
Order No.	1061050000	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4,	IEC: 1000 V / 57 A / 0.5 - 10 mm ²	Box
GTIN (EAN)	4032248810697	180°, PUSH IN, Clamping range, max. : 10 mm², Box	UL: 600 V / 39 A / AWG 24 - AWG 10	
Qty.	40 pc(s).			

SVF 7.62HP/180SFMF



180° inverted male header with PUSH IN connection technology for field wiring in 6 mm² 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.

Туре	SVF 7.62HP/04/180SFMF3	Version	Product data	Packaging
Order No.	1427260000	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4,	IEC: 1000 V / 57 A / 0.5 - 10 mm ²	Box
GTIN (EAN)	4050118231298	180°, PUSH IN, Clamping range, max. : 10 mm², Box	UL: 600 V / 39 A / AWG 24 - AWG 1	0
Qty.	25 pc(s).			



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Mating connector (conditionally pluggable)

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.

Туре	SV 7.62HP/04/90MF3 3.5S	Version	Product data	Packaging
Order No.	1048570000	PCB plug-in connector, male header, closed side, Middle flange, THT	IEC: 1000 V / 57 A	Box
GTIN (EAN)	4032248786459	solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin	UL: 300 V / 40.5 A	
Qty.	48 pc(s).	length (I): 3.5 mm, tinned, black, Box		



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Mating connector (fully pluggable)

SV-SMT 7.62IT 90MSF SN BX



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General ordering data

Туре	SV-SMT 7.62IT/04/90MSF3	Version	Product data	Packaging
Order No.	<u>2498720000</u>	PCB plug-in connector, male header, Middle screw flange, THT/THR	IEC: 1000 V / 41 A	Box
GTIN (EAN)	4050118511925	solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin	UL: 300 V / 40.5 A	
Qty.	50 pc(s).	length (I): 3.5 mm, tinned, black, Box		
Туре	SV-SMT 7.62IT/04/90MSF3	Version	Product data	Packaging
Type Order No.	SV-SMT 7.62IT/04/90MSF3 2499840000	Version PCB plug-in connector, male header, Middle screw flange, THT/THR	Product data IEC: 1000 V / 41 A	Packaging Box
	, ,			0 0

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.

Туре	SV 7.62HP/04/90MSF3 3.5	Version	Product data	Packaging
Order No.	1048580000	PCB plug-in connector, male header, closed side, Middle screw flange	, IEC: 1000 V / 57 A	Box
GTIN (EAN)	4032248786442	THT solder connection, 7.62 mm, Number of poles: 4, 90°, Solder pin	UL: 300 V / 40.5 A	
Qty.	48 pc(s).	length (I): 3.5 mm, tinned, black, Box		



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Mating connector (fully pluggable)

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 mm² 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.

Туре	SVF 7.62HP/04/180MSF3 S	Version	Product data	Packaging
Order No.	1061140000	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4,	IEC: 1000 V / 57 A / 0.5 - 10 mm ²	Box
GTIN (EAN)	4032248810628	180°, PUSH IN, Clamping range, max. : 10 mm², Box	UL: 600 V / 39 A / AWG 24 - AWG 1	0
Qty.	40 pc(s).			



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Accessories

Shielding



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

Туре	BVF 7.62HP SH210 4-6 KIT	Version	Product data	Packaging
Order No.	<u>1118490000</u>	PCB plug-in connector, Accessories, black		Box
GTIN (EAN)	4032248899302			
Qty.	25 pc(s).			
Туре	BVF 7.62HP SH150 4-6 KIT	Version	Product data	Packaging
Order No.	1118480000	PCB plug-in connector, Accessories, black		Box
GTIN (EAN)	4032248899449			
Qty.	25 pc(s).			
Туре	BVF 7.62HP SH180 4-6 KIT	Version	Product data	Packaging
Order No.	1118470000	PCB plug-in connector, Accessories, black		Box
GTIN (EAN)	4032248899456			
Qty.	25 pc(s).			

Slotted screwdriver

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



Туре	SDS 0.8X4.5X125	Version
Order No.	9009020000	Screwdriver, Blade width (B): 4.5 mm, Blade length: 125 mm, Blade
GTIN (EAN)	4032248266883	thickness (A): 0.8 mm
Qty.	1 pc(s).	



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Accessories

PΖ



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
Order No. 9011460000
GTIN (EAN) 4008190165352
Oty. 1 pc(s).

Version

Pressing tool, Crimping tool for wire-end ferrules, 0.25mm², 6mm²,

Trapezoidal indentation crimp

Coding elements



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.

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).			