



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com















1









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**

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN without actu- ator, Tension-clamp connection, Clamping range, max.: 10 mm², Box
Order No.	<u>1060520000</u>
Туре	BVF 7.62HP/04/180SF SN BK BX
GTIN (EAN)	4032248810017
Qty.	30 items
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm <sup>2</sup> UL: 600 V / 39 A / AWG 24 - AWG 8
Packaging	Вох





#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Technical data**

#### **Approvals**

Approvals



ROHS	Conform	
UL File Number Search	<u>UL Website</u>	
Certificate No. (cURus)	E60693	

#### **Dimensions and weights**

Depth	44.7 mm	Depth (inches)	1.7598 inch
Height	20 mm	Height (inches)	0.7874 inch
Net weight	26.03 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 without actuator, Tension-clamp connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Conductor outlet direction	180°
Number of poles	4	L1 in mm	22.86 mm
L1 in inches	0.900 "	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
Tightening torque for screw flange, min	. 0.2 Nm	Tightening torque for screw flange, max	a. 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	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Tinning type	glossy
Layer structure of plug contact	68 µm Sn	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.	10 mm <sup>2</sup>	
Solid, min. H05(07) V-U	0.5 mm²	
Solid, max. H05(07) V-U	10 mm²	

Creation date 05.12.2025 06:03:19 MEZ





#### Weidmüller Interface GmbH & Co. KG

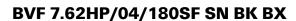
Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# Technical data

Stranded, max. H07V-R	10 mm²		
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>		
lexible, max. H05(07) V-K	10 mm <sup>2</sup>		
v. plastic collar ferrule, DIN 46228 nin.	pt 4, 0.5 mm <sup>2</sup>		
r. plastic collar ferrule, DIN 46228 nax.	pt 4, 6 mm <sup>2</sup>		
v. wire end ferrule, DIN 46228 pt 1 nin.	l, 0.5 mm²		
v. wire end ferrule, DIN 46228 pt 1 nax.	l, 10 mm²		
lampable conductor	Cross-section for conductor connection	Type	fine-wired
·		nominal	0.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 14 mm
	100.2 200.2	Recommended wire-	H0,5/12 OR
		end ferrule	
	Cross-section for conductor connection	Туре	fine-wired
		nominal	0.75 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire- end ferrule	H0,75/18 W
	Cross-section for conductor connection	Туре	fine-wired
		nominal	1 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 15 mm
	www.sila.ionale	Recommended wire- end ferrule	H1,0/18 GE
	Cross-section for conductor connection	Туре	fine-wired
		nominal	1.5 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
	wife sha ferrale	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	Type	fine-wired
	Closs-section for conductor connection	nominal	2.5 mm <sup>2</sup>
	wire end ferrule		
	wire end ierrule	Stripping length Recommended wire-	nominal 12 mm
		end ferrule	<u>H2,5/12</u>
		Stripping length	nominal 14 mm
		Recommended wire- end ferrule	H2,5/19D BL
	Cross-section for conductor connection	Туре	fine-wired
		nominal	4 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-	H4,0/12
		end ferrule	
		Stripping length	nominal 14 mm
		Recommended wire- end ferrule	H4,0/20D GR
	Cross-section for conductor connection	Туре	fine-wired
		nominal	6 mm <sup>2</sup>
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H6,0/12
		Stripping length	nominal 14 mm
		Recommended wire- end ferrule	H6,0/20 SW
	Cross-section for conductor connection	Туре	fine-wired
		nominal	10 mm²







#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

mark of origin, type identification, pitch

DIN EN 60512-13-5 / 11.08

180° turned with coding elements

DIN EN 61984 section 6.3 and 6.9.1 / 09.02,

available

durability

passed

## **Technical data**

	wire end ferrule  Stripping length  Recommended wire- end ferrule		nominal - <u>H10,0/12</u>	12 mm	
Reference text	The outside diameter of the plastic collar should not be larger than the is to be chosen depending on the product and the rated voltage.		pitch (P), Leng	th of ferru	
Rated data acc. to IEC					
tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. nur (Tu=20°C)	·	57 A	
Rated current, max. number of poles Tu=20°C)	51 A	Rated current, min. nur (Tu=40°C)	mber of poles	57 A	
Rated current, max. number of poles Tu=40°C)	45 A	Rated voltage for surge pollution degree II/2	voltage class /	1000 V	
Rated voltage for surge voltage class / pollution degree III/2	1000 V	Rated voltage for surge pollution degree III/3	voltage class /	800 V	
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage to class/ pollution degree		8 kV	
Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV	Short-time withstand c		3 x 1s with 42	20 A
Creepage distance, min.	12.7 mm	Clearance, min.		10.4 mm	
Rated data acc. to CSA					
nstitute (CSA)	CSA	Certificate No. (CSA)		200039-112	1690
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 grou	up D / CSA)	5 A	
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AW	/G, max.	AWG 8	
Reference to approval values	Specifications are maximum values, details - see approval certificate.				
Rated data acc. to UL 1059					
nstitute (cURus)	CURUS	Certificate No. (cURus)		E60693	
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use gro		600 V	
Rated voltage (Use group D / UL 1059)		Rated current (Use ground		39 A	
Rated current (Use group C / UL 1059)	39 A	Rated current (Use ground		5 A	
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AW	/G, 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	136.00 mm	VPE height		61.00 mm	
Type tests					
Test: Durability of markings	Standard		EN 61984 sectio		
		patt	ern from DIN EN 6	50068-2-70 /	07.96

Creation date 05.12.2025 06:03:19 MEZ

Test: Misengagement (Non-

interchangeability)

Test

Test

Test

Evaluation

Evaluation

Standard





#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# **Technical data**

	Evaluation	passed
	Test	180° turned without coding elements
	Evaluation	passed
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 04.08
	Conductor type	Type of conductor solid 0.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 0.5 mm <sup>2</sup> and conductor cross-section
		Type of conductor solid 6 mm <sup>2</sup> and conductor cross-section
		Type of conductor stranded 6 mm <sup>2</sup> and conductor cross-section
		Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 24/19 and conductor cross-section
		Type of conductor AWG 14/1 and conductor cross-section
		Type of conductor AWG 14/19 and conductor cross-section
	Evaluation	passed
Test for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00
loosening of conductors	Requirement	0.3 kg
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section
		Type of conductor H05V-K0.5 and conductor cross-section
		Type of conductor AWG 20/1 and conductor cross-section
		Type of conductor AWG 20/19 and conductor cross-section
	Evaluation	passed
	Requirement	1.4 kg
	Conductor type	Type of conductor H07V-U6 and conductor cross-section
		Type of conductor H07V-K6 and conductor cross-section
		Type of conductor AWG 10/1 and conductor cross-section
		Type of conductor AWG 10/19 and conductor cross-section
	Evaluation	passed
Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥20 N



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Technical data**

Conductor type	Type of conductor and conductor cross-section	H05V-U0.5
	Type of conductor and conductor cross-section	H05V-K0.5
	Type of conductor and conductor cross-section	AWG 20/1
	Type of conductor and conductor cross-section	AWG 20/19
Evaluation	passed	
Requirement	≥80 N	
Conductor type	Type of conductor and conductor cross-section	H07V-U6
	Type of conductor and conductor cross-section	H07V-K6
	Type of conductor and conductor cross-section	AWG 10/1
	Type of conductor and conductor cross-section	AWG 10/19
Evaluation	passed	

#### **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	Additional variants 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.
- 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
- $\bullet$  Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

#### 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		<u> </u>



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

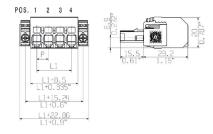
www.weidmueller.com

## **Drawings**

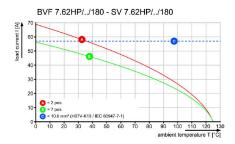
#### **Product image**

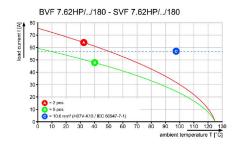






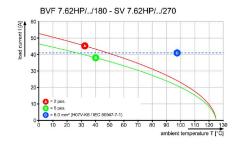
**Graph** Graph





#### Graph

#### **Product benefits**





Installation without toolsOutlet direction: 90° und 180°



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## 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**

Туре	BV/SV 7.62HP KO
Order No.	1937590000
GTIN (EAN)	4032248608881
Otv	50 ST

Slotted screwdriver

Version

PCB plug-in connector, Accessories, Coding element, black, Number of poles: 1



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 0.8X4.5X125
Order No. 9009020000
GTIN (EAN) 4032248266883
Oty. 1 ST

Version

Screwdriver, Screwdriver

#### **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





Weidmüller Interface GmbH & Co. KG

9

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

# Accessories

### **General ordering data**

1 ST

Qty.

Туре	PZ 6/5	Version
Order No.	9011460000	Pressing tool, Crimping tool for wire-end ferrules, 0.25mm², 6mm²,
GTIN (EAN)	4008190165352	Trapezoidal indentation crimp



#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## **Counterpart**

#### **SV 7.62HP 180SF SN**



Single-row, high-performance male header for side-byside mounting without sacrificing any poles or with patented flange for fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, with unique coding diversity and additional fastening in the flange. 3.5 mm pin length is optimised for lead-free wave soldering.

#### General ordering data

Type SV 7.62HP/04/180SF 3.5S... Version

Order No. 1930840000 PCB plug-in connector, male header, Screw/clip-on flange, THT solder

GTIN (EAN) 4032248580811 connection, 7.62 mm, Number of poles: 4, 180°, Solder pin length (I):

Oty. 36 ST 3.5 mm, tinned, black, Box

#### **SV 7.62HP 270SF 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/04/270SF 3.5S... Version
Order No. 1931500000 PCB plug-in connector, male header, Screw/clip-on flange, THT solder
GTIN (EAN) 4032248581535 connection, 7.62 mm, Number of poles: 4, 270°, Solder pin length (I):
Oty. 36 ST 3.5 mm, tinned, black, Box

#### **SV 7.62HP 90SF 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**

Creation date 05.12.2025 06:03:19 MEZ

Туре	SV 7.62HP/04/90SF 3.5SN	Version
Order No.	<u>1930510000</u>	PCB plug-in connector, male header, Screw/clip-on flange, THT solder
GTIN (EAN)	4032248580484	connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (I):
Qty.	36 ST	3.5 mm, tinned, black, Box



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## Counterpart

#### **SV-SMT 7.62HP 270SF BX**



OMNIMATE Power BV / SV 7.62HP – the 28 kVA performance class

Tailor-made solutions for high performers More power reserves for higher load bearing capacity: The OMNIMATE Power BV / SV 7.62HP is the middle-class of the power connector systems. It has a large clamping capacity, high overload resistance and the largest range of variants and accessories to choose from: the high performer of the HP range. HP means High Performance – this performance covers a great deal: the full rated current up to 50°C without derating, unlimited 600-V approval according to UL, and the additional finger safety for 400 V-TN systems (+ 3.0 mm) in compliance with the application directive IEC 61800-5-1.

#### **General ordering data**

Туре	SV-SMT 7.62HP/04/270SF	Version
Order No.	2499960000	PCB plug-in connector, male header, Screw flange, THT/THR solder
GTIN (EAN)	4050118513387	connection, 7.62 mm, Number of poles: 4, 270°, Solder pin length (I):
Qty.	36 ST	2.6 mm, tinned, black, Box
Туре	SV-SMT 7.62HP/04/270SF	Version
Type Order No.	SV-SMT 7.62HP/04/270SF 2498910000	Version PCB plug-in connector, male header, Screw flange, THT/THR solder
	, ,	

#### **SV-SMT 7.62HP 90SF BX**



OMNIMATE Power BV / SV 7.62HP – the 28 kVA performance class

Tailor-made solutions for high performers
More power reserves for higher load bearing capacity:
The OMNIMATE Power BV / SV 7.62HP is the middleclass of the power connector systems. It has a large
clamping capacity, high overload resistance and the
largest range of variants and accessories to choose from:
the high performer of the HP range. HP means High
Performance – this performance covers a great deal: the
full rated current up to 50°C without derating, unlimited
600-V approval according to UL, and the additional finger
safety for 400 V-TN systems (+ 3.0 mm) in compliance
with the application directive IEC 61800-5-1.

#### **General ordering data**

Туре	SV-SMT 7.62HP/04/90SF 2	Version
Order No.	2499620000	PCB plug-in connector, male header, Screw flange, THT/THR solder
GTIN (EAN)	4050118513035	connection, 7.62 mm, Number of poles: 4, 90°, Solder pin length (I):
Qty.	36 ST	2.6 mm, tinned, black, Box
Туре	SV-SMT 7.62HP/04/90SF 3	Version
Type Order No.	SV-SMT 7.62HP/04/90SF 3 2498480000	Version PCB plug-in connector, male header, Screw flange, THT/THR solder
	, ,	

Creation date 05.12.2025 06:03:19 MEZ



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

## Counterpart

#### **SVZ 7.62HP 180SF SN**



High-performance male header with the proven, 100% maintenance-free Weidmüller steel clamping yoke. Side-by-side mounting without sacrificing any poles or with patented multifunction flange for secure, fast fixing without tools. Maximum connection and operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, incorrect wiring protection. Suitable for labelling.

#### **General ordering data**

Type SVZ 7.62HP/04/180SF SN ... Version

Order No. 2590730000 PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4,

GTIN (EAN) 4050118599053 180°, Clamping yoke connection, Box

Qty. 100 ST