



### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

### **Product image**

**SVF 7.62HP/03/180SFMF2 SN BK BX** 













1







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.

### **General ordering data**

ber of poles: 3, 180°, PUSH IN without actuator,		
ber of poles: 3, 180°, PUSH IN without actuator, Tension-clamp connection, Clamping range, max. 10 mm², Box  Order No. 1427230000  Type SVF 7.62HP/03/180SFMF2 SN BK BX  GTIN (EAN) 4050118231359  Qty. 30 items  Product data IEC: 1000 V / 57 A / 0.5 - 10 mm² UL: 600 V / 39 A / AWG 24 - AWG 10		
Type SVF 7.62HP/03/180SFMF2 SN BK BX GTIN (EAN) 4050118231359  Qty. 30 items  Product data IEC: 1000 V / 57 A / 0.5 - 10 mm² UL: 600 V / 39 A / AWG 24 - AWG 10	Version	Tension-clamp connection, Clamping range, max. :
GTIN (EAN) 4050118231359  Qty. 30 items  Product data IEC: 1000 V / 57 A / 0.5 - 10 mm²  UL: 600 V / 39 A / AWG 24 - AWG 10	Order No.	<u>1427230000</u>
Oty.       30 items         Product data       IEC: 1000 V / 57 A / 0.5 - 10 mm²         UL: 600 V / 39 A / AWG 24 - AWG 10	Type	SVF 7.62HP/03/180SFMF2 SN BK BX
Product data IEC: 1000 V / 57 A / 0.5 - 10 mm <sup>2</sup> UL: 600 V / 39 A / AWG 24 - AWG 10	GTIN (EAN)	4050118231359
UL: 600 V / 39 A / AWG 24 - AWG 10	Qty.	30 items
Packaging Box	Product data	· · · · · · · · · · · · · · · · · · ·
	Packaging	Вох







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# **Technical data**

Аp	р	ro	V	a	Is
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Approvals



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

### **Dimensions and weights**

Depth	47.7 mm	Depth (inches)	1.8779 inch
Height	23.4 mm	Height (inches)	0.9213 inch
Width	45.72 mm	Width (inches)	1.8 inch
Net weight	22.17 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	3	L1 in mm	22.86 mm
L1 in inches	0.900 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged	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	c. 0.3 Nm	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)	≥ 500	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of plug contact	46 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.	10 mm²	
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>	
Solid, max. H05(07) V-U	6 mm <sup>2</sup>	

Creation date 30.11.2025 04:27:56 MEZ



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# **Technical data**

Stronded main 11071/D	102	
Stranded, min. H07V-R	10 mm <sup>2</sup>	
Stranded, max. H07V-R	10 mm²	
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>	
Flexible, max. H05(07) V-K	10 mm²	
w. plastic collar ferrule, DIN 46228 min.	3 pt 4, 1.5 mm <sup>2</sup>	
w. plastic collar ferrule, DIN 46228 max.	3 pt 4, 6 mm <sup>2</sup>	
w. wire end ferrule, DIN 46228 pt min.	1, 1.5 mm <sup>2</sup>	
w. wire end ferrule, DIN 46228 pt max.	1, 6 mm <sup>2</sup>	
Clampable conductor	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- H2,5/12 end ferrule
		Stripping length nominal 14 mm
		Recommended wire- H2.5/19D BL end ferrule
	Cross-section for conductor connection	Type 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- H4.0/20D GR end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 6 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 12 mm
		Recommended wire- H6,0/12 end ferrule
		Stripping length nominal 14 mm
		Recommended wire- end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 1.5 mm <sup>2</sup>
	wire end ferrule	Stripping length nominal 15 mm
		Recommended wire- H1,5/18D SW end ferrule
		Stripping length nominal 12 mm
		Recommended wire- H1,5/12 end ferrule
Reference text	The outside diameter of the pleatic caller share	uld not be larger than the pitch (P) Length of ferrule

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.

### Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	57 A
Rated current, max. number of poles (Tu=20°C)	50 A	Rated current, min. number of poles (Tu=40°C)	57 A
Rated current, max. number of poles (Tu=40°C)	45 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	800 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

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# Technical data

Creepage distance, min.	12.7 mm	Clearance, min.	12.7 mm	
Rated data acc. to CSA				
Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690	
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)	36 A	
Rated current (Use group C / CSA)	36 A	Rated current (Use group D / CSA)	5 A	
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 10	
Reference to approval values	Specifications are maximum values, details - see approval certificate.	vviio cross seedeli, Avvo, max.	7.WVG 10	
Rated data acc. to UL 1059				
In ation to (all Dura)	CLIDLIC	Contificate No. (allPos)	FC0C02	
Institute (cURus)	CURUS 600 V	Certificate No. (cURus)	E60693	
Rated voltage (Use group B / UL 1059)		Rated voltage (Use group C / UL 1059)	600 V	
Rated voltage (Use group D / UL 1059)		Rated current (Use group B / UL 1059)		
Rated current (Use group C / UL 1059)		Rated current (Use group D / UL 1059)		
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 10	
Reference to approval values	Specifications are maximum values, details - see approval certificate.			
Packing				
Packaging	Box	VPE length	352.00 mm	
VPE width	139.00 mm	VPE height	62.00 mm	
Type tests				
Test: Durability of markings	Standard		on 7.3.2 / 09.02 taking 60068-2-70 / 07.96	
	Test mark of origin, type identification, pitch			
	Evaluation	available		
	Test	est durability		
	Evaluation	passed		
Test: Misengagement (Non- interchangeability)	Standard	DIN EN 61984 section DIN EN 60512-13-5	on 6.3 and 6.9.1 / 09.02 / 11.08	
	Test	180° turned with cod	ling elements	
	F 1 .:			

passed

section

section

section

section

section

180° turned without coding elements

EN 60947-1 section 8.2.4.5.1 / 04.08

Type of conductor and conductor cross-

Type of conductor

Type of conductor

Type of conductor

Type of conductor

and conductor cross-

and conductor cross-

and conductor cross-

and conductor cross-

DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN

solid 0.5 mm<sup>2</sup>

solid 6 mm<sup>2</sup>

AWG 24/1

stranded 6 mm<sup>2</sup>

4

stranded 0.5 mm<sup>2</sup>

Evaluation

Standard

Conductor type

Test Evaluation

Creation	date	30.1	l 1	2025	$04.2^{\circ}$	7.56	MF7

Test: Clampable cross section

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		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	
est for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00	
osening 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	
ull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00	
	Requirement	≥20 N	
	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	≥80 N	
	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	







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**Technical data** 

**SVF 7.62HP/03/180SFMF2 SN BK BX** 

	Type of conductor AWG 10/19 and conductor cross-section
Evaluation	passed

### **Important note**

Notes

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.Additional variants on request

- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

### Classifications

EC002638	ETIM 7.0	EC002638
EC002638	ETIM 9.0	EC002638
EC002638	ECLASS 9.0	27-44-03-09
27-44-03-09	ECLASS 10.0	27-44-03-09
27-46-02-02	ECLASS 12.0	27-46-02-02
27-46-02-02	ECLASS 14.0	27-46-02-02
27-46-02-02		
	EC002638 EC002638 27-44-03-09 27-46-02-02 27-46-02-02	EC002638 ETIM 9.0 EC002638 ECLASS 9.0 27-44-03-09 ECLASS 10.0 27-46-02-02 ECLASS 12.0 27-46-02-02 ECLASS 14.0

## **SVF 7.62HP/03/180SFMF2 SN BK BX**



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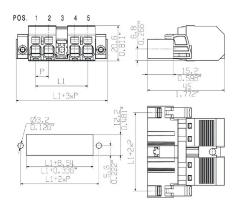
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# **Drawings**

### **Product image**



### **Dimensional drawing**



Graph Graph

