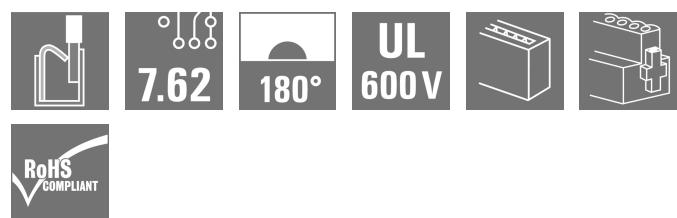


SVF 7.62HP/04/180SFMSF2 SN BK BX SO

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

www.weidmueller.com

Product image

180° inverted pin header with PUSH IN connection technology for field wiring in 6mm² in a 7.62 pitch, as a "three-flange variant" for enclosure feed-through. Suitable for enclosures with a max. wall thickness of 2mm. Also perfect as a touch-safe solution for reverse voltages. Meets the requirements of UL1059 600 V Class C and IEC 61800-5-1.

General ordering data

Version	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 4, 180°, PUSH IN without actuator, Tension-clamp connection, Clamping range, max. : 10 mm ² , Box
Order No.	1994590000
Type	SVF 7.62HP/04/180SFMSF2 SN BK BX SO
GTIN (EAN)	4050118380224
Qty.	30 items
Product data	IEC: 1000 V / 57 A / 0.5 - 10 mm ² UL: 600 V / 39 A / AWG 24 - AWG 10
Packaging	Box

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	47.7 mm
Height	23.4 mm
Width	53.34 mm
Net weight	21.13 g

Depth (inches)	1.8779 inch
Height (inches)	0.9213 inch
Width (inches)	2.1 inch

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	30.48 mm
L1 in inches	1.200 "	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.	0.3 Nm
Screwdriver blade	0.6 x 3.5	Plugging cycles	25

Material data

Insulating material	PA 66/6	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
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	4...6 µm Sn glossy
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	110 °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	6 mm ²
Stranded, min. H07V-R	10 mm ²
Stranded, max. H07V-R	10 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²

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Flexible, max. H05(07) V-K 10 mm²

w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm²
min.

w. plastic collar ferrule, DIN 46228 pt 4, 6 mm²
max.

w. wire end ferrule, DIN 46228 pt 1, 1.5 mm²
min.

w. wire end ferrule, DIN 46228 pt 1, 6 mm²
max.

Clampable conductor

Cross-section for conductor connection

Type fine-wired

nominal 2.5 mm²

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 mm²

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 mm²

wire end ferrule

Stripping length nominal 12 mm

Recommended wire- H6.0/12
end ferrule

Stripping length nominal 14 mm

Recommended wire- H6.0/20 SW
end ferrule

Cross-section for conductor connection

Type fine-wired

nominal 1.5 mm²

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 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 57 A
(Tu=20°C)

Rated current, max. number of poles 50 A
(Tu=20°C)

Rated current, min. number of poles 57 A
(Tu=40°C)

Rated current, max. number of poles 45 A
(Tu=40°C)

Rated voltage for surge voltage class / 1000 V
pollution degree II/2

Rated voltage for surge voltage class / 800 V
pollution degree III/2

Rated voltage for surge voltage class / 800 V
pollution degree III/3

Rated impulse voltage for surge voltage 6 kV
class/ pollution degree II/2

Rated impulse voltage for surge voltage 8 kV
class/ pollution degree III/2

Rated impulse voltage for surge voltage 8 kV
class/ contamination degree III/3

Short-time withstand current resistance 3 x 1s with 420 A

Creepage distance, min. 12.7 mm

Clearance, min. 12.7 mm

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Technical data

Rated data acc. to CSA

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

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 10
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	50.00 mm

Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96
	Test	mark of origin, type identification, pitch
	Evaluation	available
	Test	durability
	Evaluation	passed
Test: Misengagement (Non-interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN EN 60512-13-5 / 11.08
	Test	180° turned with coding elements
	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 ² and conductor cross-section
		Type of conductor stranded 0.5 mm ² and conductor cross-section
		Type of conductor solid 6 mm ² and conductor cross-section
		Type of conductor stranded 6 mm ² 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

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Test for damage to and accidental loosening of conductors		Type of conductor and conductor cross-section	AWG 14/19
		Evaluation	passed
		Standard	DIN EN 60999-1 section 9.4 / 12.00
		Requirement	0.3 kg
		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	1.4 kg
		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
		Standard	DIN EN 60999-1 section 9.5 / 12.00
Pull-out test		Requirement	≥20 N
		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

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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">• 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

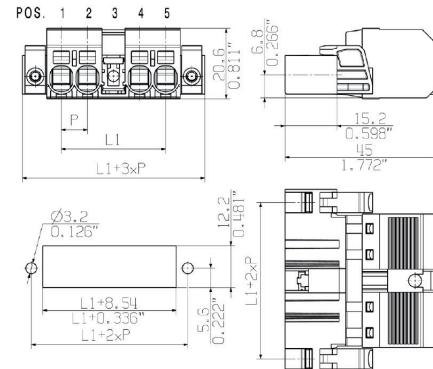
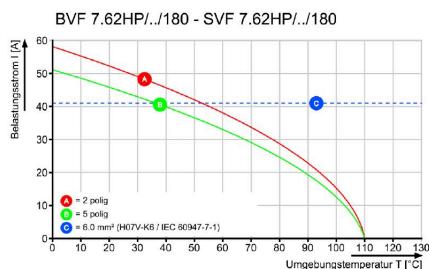
Classifications

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		

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Drawings**Product image****Dimensional drawing****Graph****Graph**