

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image













1







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

Version	PCB plug-in connector, male plug, 7.62 mm, Number of poles: 5, 180°, PUSH IN without actuator, Tension-clamp connection, Clamping range, max.: 10 mm², Box
Order No.	<u>1061080000</u>
Туре	SVF 7.62HP/05/180MF4 SN BK BX
GTIN (EAN)	4032248810673
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	Вох





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Technical data

Approvals

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	46.6 mm	Width (inches)	1.8346 inch
Net weight	27.2 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	5	L1 in mm	38.10 mm
L1 in inches	1.500 "	Number of rows	1
Pin series quantity	1	Rated cross-section	6 mm ²
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	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 ²	
Clamping range, max.	10 mm²	
Solid, min. H05(07) V-U	0.5 mm ²	
Solid, max. H05(07) V-U	6 mm²	
Stranded, min. H07V-R	10 mm²	

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Stranded, max. H07V-R	10 mm ²	
Flexible, min. H05(07) V-K	0.5 mm ²	
lexible, max. H05(07) V-K	10 mm ²	
v. plastic collar ferrule, DIN 46228 nin.	3 pt 4, 1.5 mm²	
v. plastic collar ferrule, DIN 46228 nax.	3 pt 4, 6 mm ²	
v. wire end ferrule, DIN 46228 pt	1. 1.5 mm ²	
nin.	1, 1.0 11111	
v. wire end ferrule, DIN 46228 pt	1, 6 mm ²	
nax.		
lampable conductor	Cross-section for conductor connection	Type fine-wired
		nominal 2.5 mm ²
	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 ²
	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 ²
	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 mm ²
	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
deference text	The outside diameter of the plastic collar shous is to be chosen depending on the product and	uld not be larger than the pitch (P), Length of ferru

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
Creepage distance, min.	12.7 mm	Clearance, min.	12.7 mm

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Technical data

Rated	data	acc	tο	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.		

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 -		

Packing

Packaging	Box	VPE length	354.00 mm
VPE width	138.00 mm	VPE height	61.00 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	

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







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Technical data

	Evaluation	passed		
Important note				
IPC conformity	recognized standards and nor	ucts are developed, manufactured and delivered according international and norms and comply with the assured properties in the data sheet resp. erties in accordance with IPC-A-610 "Class 2". Further claims on the products request.		
Notes	 Wire end ferrule without plant Wire end ferrule with plasting P on drawing = pitch Rated data refer only to the components are to be designed In accordance with IEC 619 capacity (COC). During designed disengaged when live or under the without plant 	d cross-section & min. No. of poles. astic collar to DIN 46228/1 c collar to DIN 46228/4 component itself. Clearance and creepage distances to other uned in accordance with the relevant application standards. 84, OMNIMATE-connectors are connectors without breaking gnated use, connectors are not allowed to be engaged or		

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 9.0	27-44-03-09
ECLASS 9.1	27-44-03-09	ECLASS 10.0	27-44-03-09
ECLASS 11.0	27-46-02-02	ECLASS 12.0	27-46-02-02
ECLASS 13.0	27-46-02-02	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		



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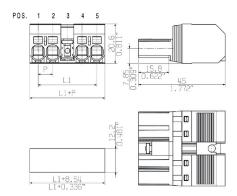
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Drawings

Product image



Dimensional drawing



Graph Graph

