



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image, Similar to illustration















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High-performance female 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 operating reliability thanks to a mating profile that prevents incorrect connection, unique coding diversity, protection against faulty wiring, 4-point contact. Suitable for labelling.

General ordering data

Version	PCB plug-in connector, female plug, 7.62 mm, Number of poles: 5, 180°, Clamping yoke connec- tion, Clamping range, max. : 10 mm², Box
Order No.	<u>1543040000</u>
Туре	BVZ 7.62HP/05/180MF3 SN BK BX
GTIN (EAN)	4050118347821
Qty.	24 items
Product data	IEC: 1000 V / 57 A / 0.2 - 10 mm ² UL: 600 V / 40.5 A
Packaging	Box







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Technical data

Approvals

Approvals	c F11 **
ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	43.2 mm	Depth (inches)	1.7008 inch
Height	23.1 mm	Height (inches)	0.9094 inch
Width	45.72 mm	Width (inches)	1.8 inch
Net weight	28.3 g		

Environmental Product Compliance

Compliant without exemption	
No SVHC above 0.1 wt%	
	and the second s

System Parameters

Product family	OMNIMATE Power - series	Type of connection	Field connection
	BV/SV 7.62HP		
Wire connection method	Clamping yoke connection	Pitch in mm (P)	7.62 mm
Pitch in inches (P)	0.300 "	Conductor outlet direction	180°
Number of poles	5	Number of rows	1
Pin series quantity	1	Rated cross-section	6 mm²
Touch-safe protection acc. to DIN VDE 0470	IP 20	Protection degree	IP20
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Clamping screw	M 3	Screwdriver blade	0.6 x 3.5
Plugging cycles	25	Plugging force/pole, max.	16.5 N
Pulling force/pole, max.	11 N		

Material data

PA GF	Colour	black
RAL 9011	Insulating material group	II
≥ 500	Moisture Level (MSL)	
V-0	Contact material	Copper alloy
tinned	Layer structure of plug contact	68 µm Sn glossy
-40 °C	Storage temperature, max.	70 °C
-50 °C	Operating temperature, max.	125 °C
-25 °C	Temperature range, installation, max.	100 °C
	RAL 9011 ≥ 500 V-0 tinned -40 °C -50 °C	RAL 9011 Insulating material group ≥ 500 Moisture Level (MSL) V-0 Contact material tinned Layer structure of plug contact -40 °C Storage temperature, max. -50 °C Operating temperature, max.

Conductors suitable for connection

Clamping range, min.	0.2 mm ²
Clamping range, max.	10 mm ²
Wire connection cross section AWG,	AWG 24
min.	
Wire connection cross section AWG,	AWG 8
max.	
Solid, min. H05(07) V-U	0.2 mm ²
Solid, max. H05(07) V-U	6 mm²
Flexible, min. H05(07) V-K	0.2 mm ²

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Flexible, max. H05(07) V-K	10 mm²		
w. plastic collar ferrule, DIN 46228 min.	pt 4, 0.2 mm²		
w. plastic collar ferrule, DIN 46228 max.	pt 4, 6 mm²		
v. wire end ferrule, DIN 46228 pt 1 min.	, 0.5 mm²		
w. wire end ferrule, DIN 46228 pt 1	, 6 mm²		
nax. Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
pazio con adoto.	Green seemen ren seriaaster seriniseastri	nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 14 mm
	The site is a series of the se	Recommended wire- end ferrule	H0,5/18 OR
	Cross-section for conductor connection	Туре	fine-wired
	Gross section for confidence confidence	nominal	1 mm ²
	wire end ferrule	Stripping length	nominal 15 mm
		Recommended wire- end ferrule	H1,0/18 GE
	Cross-section for conductor connection	Туре	fine-wired
	Gross section for defination confined ten	nominal	1.5 mm ²
	wire end ferrule	Stripping length	nominal 15 mm
	wife one ionale	Recommended wire- end ferrule	H1,5/18D SW
		Stripping length	nominal 12 mm
		Recommended wire-	H1,5/12
	Cross-section for conductor connection	Туре	fine-wired
	Green seemen ren seriaaster seriniseastri	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	Туре	fine-wired
		nominal	2.5 mm ²
	wire end ferrule	Stripping length	nominal 14 mm
		Recommended wire- end ferrule	H2,5/19D BL
		Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H2,5/12
	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 14 mm
		Recommended wire- end ferrule	H6,0/20 SW
		Stripping length	nominal 12 mm
		Recommended wire-	H6,0/12
		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.







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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)	54 A	Rated current, min. number of poles (Tu=40°C)	51 A
Rated current, max. number of poles (Tu=40°C)	41 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	1000 V	Rated voltage for surge voltage class / pollution degree III/3	800 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6000 V	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.	13.8 mm	Clearance, min.	10.2 mm

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)	40.5 A
Rated current (Use group C / CSA)	40.5 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8

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 voltage (Use group F / UL 1059)	1000 V
Rated current (Use group B / UL 1059)	40.5 A	Rated current (Use group C / UL 1059)	40.5 A
Rated current (Use group D / UL 1059)	5 A	Rated current (Use group F / UL 1059)	40.5 A
Wire cross-section, AWG, max.	AWG 8	Reference to approval values	Specifications are maximum values, details - see approval certificate.

Packing

Packaging	Вох	VPE length	338.00 mm
VPE width	130.00 mm	VPE height	44.00 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, type of material	
	Evaluation	available	
	Test	durability	
	Evaluation	passed	
Test: Misengagement (Non- interchangeability)	Standard	DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN IEC 512 part 7 section 5 / 05.94	
	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 / 12.02	
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section	

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		Type of conductor stranded 0.5 mm ² and conductor cross-	
		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 10/1 and conductor cross-section	
		Type of conductor AWG 10/19 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	0.2 kg	
isocolinig of conductors	Conductor type	Type of conductor AWG 24/1 and conductor cross-section	
		Type of conductor AWG 24/19 and conductor cross-section	
	Evaluation	passed	
	Requirement	0.3 kg	
	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	
	Evaluation	passed	
	Requirement	1.4 kg	
	Conductor type	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 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	≥10 N	
	Conductor type	Type of conductor AWG 24/1 and conductor cross-section	
		Type of conductor AWG 24/19 and conductor cross-section	
	Evaluation	passed	
	Requirement	≥20 N	



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Conductor type	Type of conductor and conductor cross-section	solid 0.5 mm²
	Type of conductor and conductor cross-section	stranded 0.5 mm ²
Evaluation	passed	
Requirement	≥80 N	
Conductor type	Type of conductor and conductor cross-section	solid 6 mm ²
	Type of conductor and conductor cross-section	stranded 6 mm ²
	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
- Rated current related to rated cross-section & min. No. of poles.
- 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
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

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		



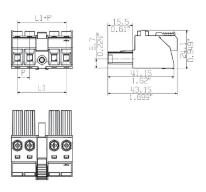
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Drawings

Dimensional drawing



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Graph Graph



