BHF 5.00/02 BK/BK PRT 5/6

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

www.weidmueller.com





General ordering data

Version	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2, 180°, PUSH IN without actuator, Box
Order No.	2494910000
Type	BHF 5.00/02 BK/BK PRT 5/6
GTIN (EAN)	4050118504637
Qty.	150 pc(s).
Product data	IEC: 400 V / 0.2 - 2.5 mm² UL:
Packaging	Box

Creation date April 7, 2025 6:10:53 PM CEST

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Technical data

Dimensions and weights

Depth	32.4 mm	Depth (inches)	1.276 inch
Height	29 mm	Height (inches)	1.142 inch
Width	14.6 mm	Width (inches)	0.575 inch
Net weight	5.01 g		

System Parameters

Product family	OMNIMATE Housing - series CH20M	Type of connection	Field connection
Wire connection method	PUSH IN without actuator	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 "	Conductor outlet direction	180°
Number of poles	2	Touch-safe protection acc. to DIN VDE 57 106	Safe from back-of-hand touch
Protection degree	IP20 in installed state	Volume resistance	≤5 mΩ
Screwdriver blade	0.6 x 3.5	Plugging cycles	25

Material data

Insulating material	PA 66 GF 30	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	600 ≤ CTI	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-25 °C	Operating temperature, max.	120 °C

Conductors suitable for connection

Solid, min. H05(07) V-U	0.2 mm²	Solid, max. H05(07) V-U	1.5 mm²
Stranded, min. H07V-R	0.2 mm²	Stranded, max. H07V-R	2.5 mm²
Flexible, min. H05(07) V-K	0.2 mm²	Flexible, max. H05(07) V-K	2.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm²	w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm²	w. wire end ferrule, DIN 46228 pt 1, max.	2.3 mm²
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=40°C)	9 A
Rated voltage for surge voltage class / pollution degree II/2	400 V	Rated voltage for surge voltage class / pollution degree III/2	320 V
Rated voltage for surge voltage class / pollution degree III/3	250 V	Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV
Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV	Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV

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Technical data

Rated data acc. to CSA

Institute (CSA)		Certificate No. (CSA)	200039-70153051
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (cURus)		Certificate No. (cURus)	E60693
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Material data

Comparative Tracking Index (CTI)	600 ≤ CTI	Insulating material	PA 66 GF 30
Insulating material group	I	UL 94 flammability rating	V-0

General data

Colour	black	Colour chart (similar)	RAL 9011
Protection degree	IP20 in installed state		

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ETIM 9.0	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		

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.

Approvals

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

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Technical data

Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format
Brochures	FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN

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Drawings

Product benefits

