

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold

Germany

Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com











Naturally, the CH20M system also shows its perfection in the peripheral interface.

When considering design options, processing, usability, reliability and security, the PCB terminals or pin headers and connectors are just as important in the practice as the entire system.

In every sector, the connection technology is at the top of its class.

- 100% non-interchangeable Together with the captive, unique "Auto-Set" encoding, the uniquely detectable markers on the plug connection and in the front ensure misconnection-proof assignment of the connections. Both markers can be printed as cards in a PrintJet and then permanently snapped on.
- 100% intuitive Quick and easy operation by means of an integrated colour-coded release lever with grip tab and including a screwdriver pocket.
- 100% safe Touch protection for the male and female header on both sides
- 100% efficient All PCB connection elements are reflow compatible
- 100% time and cost savings During the installation: the quick all-purpose "Multi-Tool" screw head ensures a secure contact, user-friendly operation and less complexity. Additional features, such as the "Wire ready" technology, enable you to minimize wiring costs and increase customer satisfaction.

Simple, component-friendly unplugging of the female plug using the integrated release lever.

General ordering data

BHF 5.00/04/180LH BK/BL
<u>1989090000</u>
PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 180°, PUSH IN, Box
4050118533453
78 pc(s).
IEC: 400 V / 10 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 26 - AWG 14
Вох



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Technical data

Dimensions and weights

Length	14.6 mm	Length (inches)	0.575 inch
Width	22.15 mm	Width (inches)	0.872 inch
Depth	30.82 mm	Depth (inches)	1.213 inch
Net weight	9.14 g		

System specifications

Product family	OMNIMATE Signal - series	Type of connection	
	BL/SL 5.00		Field connection
Pitch in mm (P)	5 mm	Pitch in inches (P)	0.197 inch
Number of poles	4	L1 in mm	15 mm
L1 in inches	0.591 inch	Number of rows	1
Pin series quantity	1	Volume resistance	≤ 5mΩ
Can be coded	Yes	Plugging cycles	25

Material data

Insulating material	PA 66 GF 30	Colour	black
Colour of operational elements	blue	Material of operational elements	PBT
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 400	Insulation strength	≥ 10 ⁸ Ω
UL 94 flammability rating	V-0	Contact material	Copper alloy
Contact surface	tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	50 °C	Max. relative humidity during storage	70 %
Operating temperature, min.	-40 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

Rated data acc. to IEC

tested acc. to standard		Rated current, min. number of poles	
	IEC 60664-1, IEC 61984	(Tu=20°C)	10 A
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	Clearance, min.	3 mm
Creepage distance, min.	3.2 mm		

Rated data acc. to CSA

Institute (CSA)	(13)	Certificate No. (CSA)	
			200039-70153051
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	50 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	10 A
Rated current (Use group C / CSA)	10 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 14
Reference to approval values	Specifications are maximum values, details - see approval certificate.		



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Technical data

Rated data acc. to UL 1059

Institute (cURus)	c Al lus
Rated voltage / Use group R / LIL 1050) 300 V

Certificate No. (cURus)

Rated voltage (Use group B / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group C / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26
Reference to approval values	Specifications are maximum values, details -

	E60693
Rated voltage (Use group C / UL 1059)	50 V
Rated current (Use group B / UL 1059)	10 A
Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, max.	AWG 14

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
eClass 9.0	27-44-03-09	eClass 9.1	27-44-03-09
eClass 10.0	27-44-03-09		

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.

Approvals

Approvals



Downloads

Approval/Certificate/Document of Conformity

CSA Certificate of Compliance

see approval certificate.



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Drawings

Similar to illustration



Similar to illustration



coding

Dimensioned drawing





