

BHZ 5.00/04/90LH BK/BK SO

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



For our CH20M series, we offer first-class service with pre-coded and printed Female Plugs. This solution not only saves time during the installation of electronics housing thanks to pre-labeling but also provides protection against incorrect assembly through pre-coding—fully in line with the Poka-Yoke principle.

General ordering data

| | |
|--------------|--|
| Version | PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 90°, Clamping yoke connection, without cod.; PRT X1 / X2 / .. / X3, Box |
| Order No. | 1365980000 |
| Type | BHZ 5.00/04/90LH BK/BK SO |
| GTIN (EAN) | 4050118169164 |
| Qty. | 78 items |
| Product data | IEC: 400 V / 10 A / 0.2 - 2.5 mm ² UL: 300 V / 10 A / AWG 26 - AWG 12 |
| 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 | 30.6 mm | Depth (inches) | 1.2047 inch |
| Height | 29 mm | Height (inches) | 1.1417 inch |
| Width | 22.4 mm | Width (inches) | 0.8819 inch |
| Length | 14.6 mm | Length (inches) | 0.5748 inch |
| Net weight | 8.34 g | | |

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption
REACH SVHC No SVHC above 0.1 wt%

System Parameters

| | | | |
|--|---------------------------------|--|------------------------------|
| Product family | OMNIMATE Housing - series CH20M | Type of connection | Field connection |
| Wire connection method | Clamping yoke connection | Pitch in mm (P) | 5.00 mm |
| Pitch in inches (P) | 0.197 " | Conductor outlet direction | 90° |
| Number of poles | 4 | L1 in mm | 15.00 mm |
| L1 in inches | 0.591 " | Pin series quantity | 1 |
| Rated cross-section | 2.5 mm ² | Touch-safe protection acc. to DIN VDE 57 106 | Safe from back-of-hand touch |
| Touch-safe protection acc. to DIN VDE 0470 | IP20 plugged/ IP10 unplugged | Protection degree | IP20 |
| Can be coded | Yes | Stripping length | 8 mm |
| Tightening torque, min. | 0.4 Nm | Tightening torque, max. | 0.6 Nm |
| Clamping screw | M 2.5 | Screwdriver blade | 0.6 x 3.5 |
| Screwdriver blade standard | DIN 5264 | Plugging cycles | 25 |

Material data

| | | | |
|---------------------------------------|-------------|---------------------------------------|-----------|
| Insulating material | PA 66 GF 30 | Colour | black |
| Colour of operational elements | black | Colour chart (similar) | RAL 9011 |
| Insulating material group | I | Comparative Tracking Index (CTI) | 600 ≤ CTI |
| Moisture Level (MSL) | | UL 94 flammability rating | V-0 |
| Contact material | CuSn | Contact surface | tinned |
| Storage temperature, min. | -40 °C | Storage temperature, max. | 70 °C |
| Operating temperature, min. | -25 °C | Operating temperature, max. | 120 °C |
| Temperature range, installation, min. | -25 °C | Temperature range, installation, max. | 120 °C |

Conductors suitable for connection

| | | | |
|---|----------------------|---|----------------------|
| Clamping range, min. | 0.13 mm ² | Clamping range, max. | 3.31 mm ² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 14 |
| Solid, min. H05(07) V-U | 0.2 mm ² | Solid, max. H05(07) V-U | 2.5 mm ² |
| Stranded, min. H07V-R | 0.2 mm ² | Stranded, max. H07V-R | 2 mm ² |

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| Flexible, min. H05(07) V-K w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm ² min. | 0.2 mm ² | Flexible, max. H05(07) V-K w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max. | 2.5 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.25 mm ² | w. wire end ferrule, DIN 46228 pt 1, max. | 2.5 mm ² |
| Plug gauge in accordance with EN 60999 a x b; ø | 2.8 mm x 2.4 mm; 3.0 mm | 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=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 | Creepage distance, min. | 3.2 mm |
| Clearance, min. | 3 mm | | |

Rated data acc. to CSA

| | | | |
|-----------------------------------|--------|-----------------------------------|--------|
| 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 12 |

Rated data acc. to UL 1059

| | | | |
|---------------------------------------|--|---------------------------------------|--------|
| Institute (cURus) | CURUS | Certificate No. (cURus) | E60693 |
| Rated voltage (Use group B / UL 1059) | 300 V | Rated voltage (Use group C / UL 1059) | 50 V |
| Rated voltage (Use group D / UL 1059) | 300 V | Rated current (Use group B / UL 1059) | 10 A |
| Rated current (Use group C / UL 1059) | 10 A | Rated current (Use group D / UL 1059) | 10 A |
| Wire cross-section, AWG, min. | AWG 26 | Wire cross-section, AWG, max. | AWG 12 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Material data

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

General data

| | | | |
|------------------------|----------|-------------------|------|
| Colour | black | Protection degree | IP20 |
| Colour chart (similar) | RAL 9011 | | |

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. |
|----------------|--|

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fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

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 | | |

