

BHZ 5.00/02/90LH BK/BK PRT 2/4

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: 2, 90°, Clamping yoke connection, PRT; 2 / 4; cod. 03, Box |
| Order No. | 2507960000 |
| Type | BHZ 5.00/02/90LH BK/BK PRT 2/4 |
| GTIN (EAN) | 4050118525076 |
| Qty. | 150 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

| | |
|------|---------|
| ROHS | Conform |
|------|---------|

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 30.6 mm | Depth (inches) | 1.2047 inch |
| Height | 29 mm | Height (inches) | 1.1417 inch |
| Width | 14.6 mm | Width (inches) | 0.5748 inch |
| Length | 14.6 mm | Length (inches) | 0.5748 inch |
| Net weight | 5.13 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 | 2 | 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 in installed state |
| 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 |
| Flexible, min. H05(07) V-K | 0.2 mm ² | Flexible, max. H05(07) V-K | 2.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.25 mm ² | w. plastic collar ferrule, DIN 46228 pt 4, 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 |

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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

| | | | |
|---------------------------------------|--------|---------------------------------------|--------|
| 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 |

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 in installed state |
| Colour chart (similar) | RAL 9011 | | |

Important note

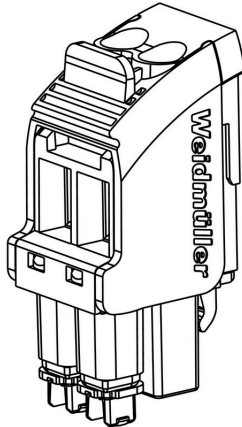
| | |
|----------------|--|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. |
|----------------|--|

Classifications

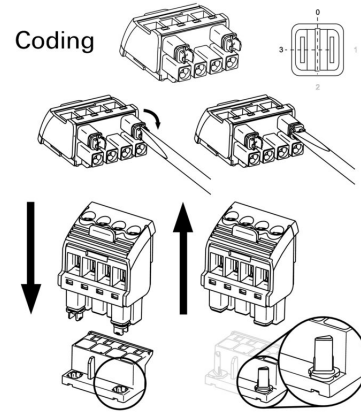
| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002638 | ETIM 9.0 | EC002638 |
| ETIM 10.0 | EC002638 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 | | |

Drawings

Product image



Similar to illustration



Similar to illustration, Example of use

Derating curve

Derating curve

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Accessories

Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | ESG 6.6/11 BHZ 5.00/02 | Version | |
| Order No. | 1082490000 | | ESG, Device markers x 11 mm, PA 66, Colour: white, pluggable |
| GTIN (EAN) | 4032248845330 | | |
| Qty. | 200 ST | | |