Data sheet

# SAMPLE CH20M67 222/222 PCB

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

www.weidmueller.com

Future-proof solutions for industrial electronics for mounting in the control cabinet
Electronichousings are crucial for the integration of electronic assemblies in the control cabinet. They protect sensitive components and ensure reliable connections. Thanks to high-quality materials, they offer long-term solutions for industrial applications.
Your advantages:
Flexibility: Scalable solutions for different requirements
Safety: Robust design to protect your electronics
Efficiency: Simple installation and optimized connection technology
Housing solutions for every application:
Our portfolio includes modular housings (e.g. CH20M), small housings and profile housings designed for control, signal conversion and safety applications. These housings offer customizable designs, easy mounting and high connection capacity.
Customization:
In addition to standard solutions, we offer customization in design, color and printing. The Weidmüller Configurator enables individual design.
Our service:
We offer expert advice and technical support for your projects. In the download area you will find CAD data, data sheets and installation instructions for efficient integration.

## General ordering data

| | |
|---|---|
| Version | Electronics housing sample, OMNIMATE Housing - series CH20M black, Sample kit for developers, consisting of individual parts incl. female plug, unmounted, Enclosure set, Connection technology, Width: 67.5 mm |
| Order No. | 1275810000 |
| Type | SAMPLE CH20M67 222/222 PCB |
| GTIN (EAN) | 4050118065633 |
| Qty. | 1 items |

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# Technical data

### Approvals

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

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 114 mm | Depth (inches) | 4.4882 inch |
| Height | 117.2 mm | Height (inches) | 4.6142 inch |
| Width | 67.5 mm | Width (inches) | 2.6575 inch |
| Length | 0 mm | Net weight | 368.15 g |

### Temperatures

| | | | |
|---|---|---|---|
| Installation temperature | -25 °C...85 °C | Humidity | 5 - 93% rel. humidity, Tu = 40°C, no condensation |

### Environmental Product Compliance

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

### Rated data acc. to IEC

| | | | |
|---|---|---|---|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, max. number of poles (Tu=20°C) | 10 A |
| Rated current, max. 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 | | |

### Material data

| | | | |
|---|---|---|---|
| UL 94 flammability rating | V-0 | Insulating material | PA 66 GF 30 |
| Insulating material group | II | Surface finish | untreated |
| Basic material | PA 66 GF 30, Plastic | Comparative Tracking Index (CTI) | 400 ≤ CTI <600 |

### General data

| | | | |
|---|---|---|---|
| Colour | black | Protection degree | IP20 in installed state |
| Colour chart (similar) | RAL 9011 | Encapsulation option | No |

### Design - IN requirements

| | | | |
|---|---|---|---|
| Tolerance for the PCB shape | ±0.1 mm | PCB thickness | 1.6 mm |
| Tolerance of circuit board thickness | ±0.15 mm | | |

### Assembly properties

| | | | |
|---|---|---|---|
| Number of connection levels | 2 | Number of PCBs, max. | 3 |
| Number of ventilation openings | 1 | Number of poles | 72 |
| Cross-connection | No | Type of contact to PCB | Solder connection, direct |
| Type of connection | Clamping yoke | | |

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### Housing properties

| | | | |
|---|---|---|---|
| Flip cover mountable | No | Marker integrateable | Yes |
| Cut out as preperation for functional port integrated | No | Color of clip-on foot | orange |
| Cross-connection | No | Number of connection levels | 2 |
| Number of poles | 72 | | |

### Connectable coducteurs

| | | | |
|---|---|---|---|
| Stripping length | 8 mm | Blade size | 0.6 x 3.5 mm |
| Tightening torque, min. | 0.4 Nm | Tightening torque, max. | 0.5 Nm |
| Clamping range, min. | 0.13 mm² | Clamping range, max. | 2.5 mm² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 14 |
| Solid, min. H05(07) V-U | 0.2 mm² | Solid, max. H05(07) V-U | 2.5 mm² |
| Stranded, max. H07V-R | 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. | 2.5 mm² | Max. clamping range | 2.5 mm² |

### Important note

| | |
|---|---|
| Product information | Circuit board contour, restricted zones, and other information for the design in of the circuit board can be found in the category connection technology under the corresponding male headers in the downloads. |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC001031 | ETIM 9.0 | EC001031 |
| ETIM 10.0 | EC001031 | ECLASS 14.0 | 27-19-03-01 |
| ECLASS 15.0 | 27-19-03-01 | | |

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## Drawings

### Dimensioned drawing