

**SAMPLE CH20M6 4/4 PCB****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

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, Width: 6.3 mm |
| Order No.  | <a href="#">1203290000</a>   |
| Type       | SAMPLE CH20M6 4/4 PCB  |
| GTIN (EAN) | 4032248985920  |
| Qty.       | 1 items  |

## SAMPLE CH20M6 4/4 PCB

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 Germany

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## Technical data

## Approvals

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

## Dimensions and weights

|        |          |                 |             |
|--------|----------|-----------------|-------------|
| Depth  | 114 mm   | Depth (inches)  | 4.4882 inch |
| Height | 112.5 mm | Height (inches) | 4.4291 inch |
| Width  | 6.3 mm   | Width (inches)  | 0.248 inch  |
| Length | 0 mm     | Net weight      | 63.69 g     |

## Environmental Product Compliance

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

## Rated data acc. to IEC

|  |       |  |       |
|--|-------|--|-------|
| Rated current, min. number of poles<br>(Tu=20°C)                             | 10 A  | Rated current, max. number of poles<br>(Tu=20°C)                         | 10 A  |
| Rated current, max. number of poles<br>(Tu=40°C)                             | 13 A  | Rated voltage for surge voltage class /<br>pollution degree II/2         | 400 V |
| Rated voltage for surge voltage class /<br>pollution degree III/2            | 320 V | Rated voltage for surge voltage class /<br>pollution degree III/3        | 250 V |
| Rated impulse voltage for surge voltage<br>class/ pollution degree II/2      | 4 kV  | Rated impulse voltage for surge voltage<br>class/ pollution degree III/2 | 4 kV  |
| Rated impulse voltage for surge voltage<br>class/ contamination degree III/3 | 4 kV  |  |       |

## Material data

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

## General data

|                      |       |                        |                         |
|----------------------|-------|------------------------|-------------------------|
| Colour               | black | Protection degree      | IP20 in installed state |
| Mounting rail        | TS 35 | Colour chart (similar) | RAL 9011                |
| Encapsulation option | No    |                        |                         |

## Design - IN requirements

|                                      |         |               |        |
|--------------------------------------|---------|---------------|--------|
| Tolerance for the PCB shape          | ±0.1 mm | PCB thickness | 0.8 mm |
| Tolerance of circuit board thickness | ±0.1 mm |               |        |

## Individualization options

|                                    |                                  |                                      |     |
|------------------------------------|----------------------------------|--------------------------------------|-----|
| Customer specific cutouts possible | Yes                              | Customer specific labelling possible | Yes |
| Customer specific order process    | See guideline under<br>downloads |                                      |     |

## Assembly properties

|                             |               |                        |        |
|-----------------------------|---------------|------------------------|--------|
| Number of connection levels | 4             | Number of PCBs, max.   | 1      |
| Number of poles             | 8             | Type of contact to PCB | Reflow |
| Type of connection          | Clamping yoke |                        |        |

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## Technical data

## Housing properties

|   |     |                             |     |
|---|-----|-----------------------------|-----|
| Flip cover mountable                                    | Yes | Marker integrateable        | Yes |
| Cut out as preparation for functional portNo integrated |     | Number of connection levels | 4   |
| Number of poles   | 8   |                             |     |

## Connectable conducteurs

|   |                      |  |                     |
|---|----------------------|--|---------------------|
| Stripping length  | 6 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 mm <sup>2</sup> | Clamping range, max.   | 2.5 mm <sup>2</sup> |
| 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 <sup>2</sup>  | Solid, max. H05(07) V-U  | 2.5 mm <sup>2</sup> |
| Stranded, max. H07V-R   | 2.5 mm <sup>2</sup>  | w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm <sup>2</sup> min. |                     |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max. |                      | Max. clamping range  | 2.5 mm <sup>2</sup> |

## 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 7.0    | EC001031    | ETIM 8.0    | EC001031    |
| ETIM 9.0    | EC001031    | ETIM 10.0   | EC001031    |
| ECLASS 11.0 | 27-18-27-02 | ECLASS 12.0 | 27-18-27-02 |
| ECLASS 13.0 | 27-19-03-01 | ECLASS 14.0 | 27-19-03-01 |
| ECLASS 15.0 | 27-19-03-01 |             |             |

**Drawings**

**Product image**

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**Product image**

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**Product image**

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**Dimensioned drawing**

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Germany[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Blank**

MultiFit is the Weidmüller marker system used for other makes of terminals. Similar to the Weidmüller Dekafix, the markers of the MultiFit family are available ready-for-use with standard printing.

We recommend to carry out a test with sample markers on the terminals used when using MultiFit for the first time.

- One marker, suitable for different makes of terminals.
- Ready-to-use markers with standard printing
- Blank markers for printing with the PrintJet CONNECT or Plotter
- Delivery of individually printed markers according to customer CAE data or specifications
- One marking system for all applications

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       | MF 5/7.5 MC NE WS          | Version  |
| Order No.  | <a href="#">1877680000</a> | MultiFit, Terminal marker, 5 x 7.5 mm, Pitch in mm (P): 7.50 Adels |
| GTIN (EAN) | 4032248468270              | RKW, Phoenix, white  |
| Qty.       | 320 ST                     |  |

**Custom printing**

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- Ready-to-use markers with standard printing
- Blank markers for printing with the PrintJet CONNECT or Plotter
- Delivery of individually printed markers according to customer CAE data or specifications
- One marking system for all applications

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       | MF 5/7.5 MC SDR            | Version  |
| Order No.  | <a href="#">1877660000</a> | MultiFit, Terminal marker, 5 x 7.5 mm, Pitch in mm (P): 7.50 Adels |
| GTIN (EAN) | 4032248468256              | RKW, Phoenix, To customer specification                            |
| Qty.       | 64 ST                      |  |