

SAMPLE CH20M12 1/2

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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 Germany

www.weidmueller.com



Scalability, individual design and cost efficiency
 The CH20M12 modular electronics housing offers a first-class solution for compact electronics applications that place the highest demands on flexibility, safety and functionality. With a width of just 12 mm, it enables PCB integration and combines maximum performance with minimum space requirements.

Automated THT and THR soldering processes, coding options and CAD data ensure efficient production. Various connection technologies, including screw and tension clamp connections, enable application-specific design. The sophisticated synergy of design, connection technology and functionality ensures a safe, user-friendly and market-driven solution.

As a premium housing, the modular CH20M12 housing offers a durable and robust design.

Perfect for anyone who values quality, safety and a scalable housing concept.

General ordering data

| | |
|------------|---|
| Version | Electronics housing sample, OMNIMATE Housing - series CH20M black, Sample kit for developers, consisting of individual parts incl. female plug, Complete enclosure, Connection technology, Width: 12.5 mm |
| Order No. | 1519230000 |
| Type | SAMPLE CH20M12 1/2 |
| GTIN (EAN) | 4050118326987 |
| Qty. | 1 items |

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Technical data

Approvals

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

Dimensions and weights

| | | | |
|--------|----------|-----------------|-------------|
| Depth | 113.6 mm | Depth (inches) | 4.4724 inch |
| Height | 117.2 mm | Height (inches) | 4.6142 inch |
| Width | 12.5 mm | Width (inches) | 0.4921 inch |
| Length | 0 mm | Net weight | 71.09 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

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

Material data

| | | | |
|---------------------------|---------|----------------------------------|----------------|
| UL 94 flammability rating | V-0 | Insulating material | PA 66 GF 30 |
| Insulating material group | II | Surface finish | untreated |
| Basic material | Plastic | 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 | 1.6 mm |
| Tolerance of circuit board thickness | ±0.15 mm | | |

Assembly properties

| | | | |
|-----------------------------|-----------|--------------------------------|---------------------------|
| Number of connection levels | 2 | Number of ventilation openings | 3 |
| Number of poles | 2 | Type of contact to PCB | Solder connection, direct |
| Type of connection | pluggable | | |

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Housing properties

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

Connectable conducteurs

| | | | |
|---|--------------------------|---|---------------------|
| Wire connection method | Clamping yoke connection | Stripping length | 8 mm |
| Tightening torque, min. | 0.4 Nm | Tightening torque, max. | 0.5 Nm |
| Clamping range, min. | 0.13 mm ² | Clamping range, max. | 2.5 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, max. H07V-R | 2.5 mm ² | Flexible, min. H05(07) V-K | 0.2 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 |
| Max. clamping range | 2.5 mm ² | | |

Classifications

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

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Drawings

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