

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

Klingenbergstraße 26

D-32758 Detmold

Germany

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.	1203290000
Type	SAMPLE CH20M6 4/4 PCB
GTIN (EAN)	4032248985920
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	114 mm	Depth (inches)	4.488 inch
Height	112.5 mm	Height (inches)	4.429 inch
Width	6.3 mm	Width (inches)	0.248 inch
Length	0 mm	Net weight	63.69 g

Rated data acc. to IEC

Rated current, min. number of poles ($T_u=20^{\circ}\text{C}$)	10 A	Rated current, max. number of poles ($T_u=20^{\circ}\text{C}$)	10 A
Rated current, max. number of poles ($T_u=40^{\circ}\text{C}$)	13 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

Comparative Tracking Index (CTI)	$400 \leq \text{CTI} < 600$	Insulating material	PBT
Insulating material group	II	Material	Plastic, PA 66 GF 30
Surface finish	untreated	UL 94 flammability rating	V-0

General data

Colour	black	Colour chart (similar)	RAL 9011
Encapsulation option	No	Protection degree	IP20 in installed state
Rail	TS 35		

Design - IN requirements

PCB thickness	0.8 mm	Tolerance for the PCB shape	± 0.1 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 down-loads		

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		

Housing properties

Flip cover mountable	Yes	Marker integrateable	Yes
Cut out as preperation for functional port integrated	No	Number of connection levels	4
Number of poles	8		

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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 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	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	Max. clamping range	2.5 mm ²

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		

Environmental Product Compliance

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

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.
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Approvals

ROHS	Conform
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Downloads

Engineering Data	CAD data – PCB Reference Layout
Catalogues	Catalogues in PDF-format
Brochures	MB DEVICE MANUF. EN FL 72H SAMPLE SER EN PO OMNIMATE EN

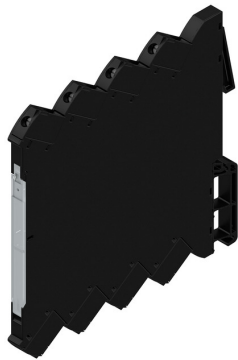
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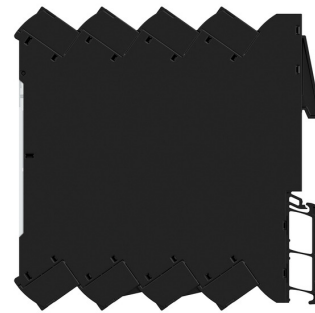
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Drawings

Product image



Product image



Product image



Dimensioned drawing

