

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 items

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Technical data

Approvals

ROHS	Conform
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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 (Tu=20°C)	10 A	Rated current, max. number of poles (Tu=20°C)	10 A
Rated current, max. number of poles (Tu=40°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

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 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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Housing properties

Flip cover mountable	Yes	Marker integrateable	Yes
Cut out as preperation 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 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, 0.25 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max.		Max. clamping range	2.5 mm ²

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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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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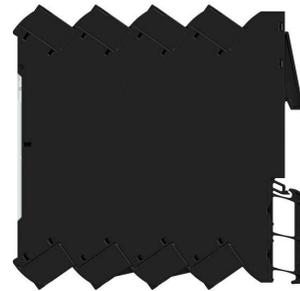
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Drawings

Product image



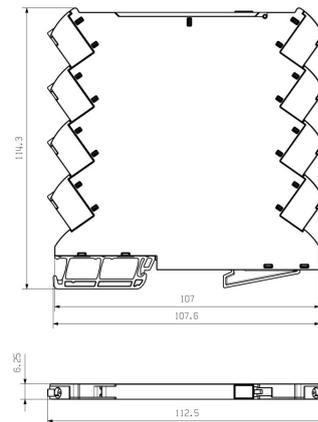
Product image



Product image



Dimensioned drawing



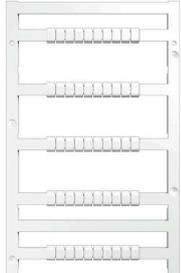
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Accessories

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.	1877680000	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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General ordering data

Type	MF 5/7.5 MC SDR	Version
Order No.	1877660000	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	