

CH20M22 B GGY/BK 2019**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image****Superior efficiency, flexibility and design - the "standard tailor-made fit"**

When selecting a housing design, flexibility is a key factor. Other important criteria are: scalability, customised design, innovative functionality and cost efficiency. You need a choice which offers the maximum performance with the minimum overhead.

The CH20M22 modular electronics housing is the standard format from amongst the different housing widths. It has the optimal width for most typical electronics applications.

The entire system is characterized by excellence: outstanding scalability and flexibility, a high security level, innovative application functionality and a variety of practical details.

- **Quicker installation** with features such as "Wire ready" the universal multi-tool screw head
- **User-friendly operations:** with clear and permanent labelling and extra marking possibilities, integrated release clip or transparent cover
- **Maximum interference immunity** with ESD-compliant construction featuring deeply overlapping module joint edges made from high-performance plastic
- **High operational reliability** with the unique Auto-Set coding system and featuring double-sided touch protection on the pin header and socket blocks

CH20M - a compact name for the most flexible system available on the market. It doesn't just stand for "Component Housing IP20 Modular".

CH20M also stands for efficiency and innovation throughout design, production and use.

General ordering data

Version	Modular housing, OMNIMATE Housing - series CH20M Graphite grey, Width: 22.5 mm
Order No.	1073350000
Type	CH20M22 B GGY/BK 2019
GTIN (EAN)	4032248831432
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Height	109.3 mm	Height (inches)	4.303 inch
Length	107.4 mm	Length (inches)	4.228 inch
Net weight	40.5 g	Width	22.5 mm
Width (inches)	0.886 inch		

Temperatures

Operating temperature range	-40 °C...120 °C	Installation temperature	-25 °C...85 °C
Humidity	5 - 93% rel. humidity, Tu = 40°C, no condensation		

Component Properties

Color of clip-on foot	black
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Mechanical tests

According to Standard	DIN EN 61373:1999 (shock and vibration)		
Test conditions	five housings installed in a row, 200g additional weight on the PCB		
Proved axles	X, Y, Z		
Shock test	Test category	1	
	Number of shocks per axle	3 in positive and negative direction	
	Shock duration	30 ms	
	Acceleration horizontal	30 m/s ²	
	Acceleration vertical	30 m/s ²	
	Acceleration longitudinal	50 m/s ²	
Vibration test	Test duration	5 hours per axle	
	Effective acceleration	7.9 m/s ²	
	Test category	1B	

Thermal tests

Thermal tests	Test conditions	three housings installed in a row - no spacing, three connection level - six connectors per housing	
	Test axles	horizontal, More on request	
	Ambient temperature	70 °C	
	Power dissipation, max.	1.9 W	
	Ambient temperature	60 °C	
	Power dissipation, max.	2.35 W	
	Ambient temperature	40 °C	
	Power dissipation, max.	3.4 W	
	Ambient temperature	20 °C	
	Power dissipation, max.	4.5 W	

Assembly properties

Number of PCB boards, max.	1	Number of connection levels	3 max.
Number of poles, max.	24		

Design - IN requirements

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

Creation date March 22, 2021 10:50:01 PM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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Technical data

Individualization options

Customer specific labelling possible

Yes

Customer specific order process

See guideline under
downloads

Processing possibilities

Laser processing

General data

Colour

Graphite grey

Colour chart (similar)

RAL 7024

Encapsulation option

No

Protection degree

IP20

Rail

TS 35

Material data

Comparative Tracking Index (CTI)

≤ 600

Insulating material

PA 66 GF 30

Insulating material group

I

UL 94 flammability rating

V-0

Classifications

ETIM 6.0

EC001031

ETIM 7.0

EC001031

ECLASS 9.0

27-18-27-90

ECLASS 9.1

27-18-27-90

ECLASS 10.0

27-18-27-92

ECLASS 11.0

27-18-27-92

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.

Approvals

ROHS

Conform

Downloads

Engineering Data

[STEP](#)
[PCB_position_50881_LP-POSITION_22MM](#)
[Pin_header_pin_length_CH20M_A_OV_PCB-SHL_70315](#)

Engineering Data

[EPLAN](#)

User Documentation

[Guideline customerspecific housings](#)
[Guideline kundenspezifische Gehäuse](#)

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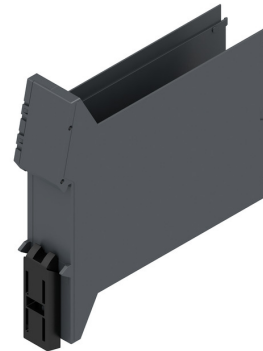
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Drawings

Product image



Product image



Base element without cut-out in snap-in foot area