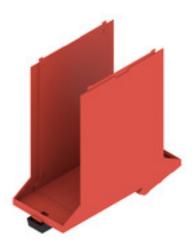


Weidmüller Interface GmbH & Co. KG

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 CH20M45 modular electronics housings come in an integrated extra-large assortment. It is suited for those electronics applications that require more space, such as compact controllers and power supplies.

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 EMCcompliant 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 red, Width: 45 mm
Order No.	<u>1206910000</u>
Туре	CH20M45 B RD/BK 2014
GTIN (EAN)	4032248988655
Qty.	6 pc(s).



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Technical data

-			
Dim	ensions	and	weights

Depth	107.4 mm	Depth (inches)	4.228 inch
Height	109.3 mm	Height (inches)	4.303 inch
Width	45 mm	Width (inches)	1.772 inch
Net weight	39.33 g		

Temperatures

Operating temperature range	-40 °C120 °C	Operating temperature, min.	-40 °C
Operating temperature, max.		Humidity	5 - 93% rel. humidity, Tu =
	120 °C		40°C, no condensation

Component Properties

Color of clip-on foot	black	Number of connection levels, max.	3

Mechanical tests

According to Standard	DIN EN 61373:1999 (shock and vibra-	DIN EN 61373:1999 (shock and vibration)		
Test conditions	five housings installed in a row, 200g a	five housings installed in a row, 200g additional weight per PCB, two PCB mounted		
Proved axles	X, Y, Z	X, Y, Z		
Shock test	General test advices	All mechanical tests were tested on examplary setup, or in view of depending regulation. The specified results do not replace approval relevant tests. They are just orientation values.		
	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 category	1B		
	Effective acceleration	7.9 m/s ²		
	Test duration	5 hours per axle		

Thermal tests		
Thermal tests	General test advices	All thermal tests were tested on examplary setup, or in view of depending regulation. The specified results do not replace approval relevant tests. They are just orientation values.
	Test conditions	seven housings installed in a row - no spacing, two connection level - eight connectors per housing
	Test axles	horizontal, More on request
	Ambient temperature	55 ℃
	Power dissapation, max.	4.2 W
	Ambient temperature	50 °C
	Power dissapation, max.	4.8 W
	Ambient temperature	40 °C
	Power dissapation, max.	5.9 W
	Ambient temperature	20 °C
	Power dissapation, max.	8.25 W



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Technical data

Assembly	v prop	erties
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Number of slots for female connectors	of	Number of PCBs, max.	
the mounted assembly, max.	12		2
Number of connection levels, max.	3	Number of poles, max.	48
Height of components on the PCB		Height of components on the PCB	
(usage of 1 PCB), max.	38.6 mm	(usage of 2 PCB), max.	34.7 mm
Type of assembly of the PCB	double-sided		
Design - IN requirements			
PCB thickness	1.6 mm	Tolerance for the PCB shape	±0.1 mm
Tolerance of circuit board thickness	±0.15 mm	· ·	
Individualization options			
Customer specific labelling possible		Customer specific order process	See guideline under
customer specific labelling possible	Yes	customer specific order process	downloads
Processing possibilities	Laser processing		
General data			
Colour	red	Colour chart (similar)	RAL 3020
Encapsulation option	No	Protection degree	IP20 in installed state
Rail	TS 35	Trotocatori dogree	ii 20 iii iiiotalioa otato
Material data			
Commence the Translation Indian (CTI)	COO < CTI	la coloria a acordo in l	DA CC CE 20
Comparative Tracking Index (CTI)	600 ≤ CTI	Insulating material UL 94 flammability rating	PA 66 GF 30 V-0
Insulating material group	ı	OL 94 Hammability rating	V-U
Classifications			
ETIM 6.0	EC001031	ETIM 7.0	EC001031
ETIM 8.0	EC001031	ECLASS 9.0	27-18-27-90
ECLASS 10.0	27-18-27-92	ECLASS 11.0	27-18-27-92
ECLASS 12.0	27-18-27-92		
Important note			
Product information		icted zones, and other information for the design i	
Approvals		- 5,	

ROHS

Conform



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Technical data

Downloads

Engineering Data	CAD data – STEP CAD data – PCB position 50882 LP-POSITION 45MM
	CAD data - PCB_position_50682_LF-POSITION_43MM CAD data - Pin_header_pin_length_CH20M_A_OV_PCB-SHL_70315
User Documentation	Guideline customerspecific housings Guideline kundenspezifische Gehäuse
Catalogues	Catalogues in PDF-format
Brochures	FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN



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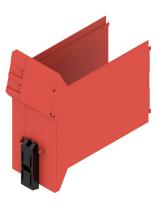
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Drawings

Product image



Product image



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

Dimensioned drawing

