



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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The basic element of the modular CH20M housing offers a number of advantages that make it an excellent choice for your projects. With special cut-outs for bus and FE contacts, it is particularly flexible and adaptable. Another plus point is the option of laser printing on the housing, which offers you high precision and individual design options. A wide range of colors is also available so that you can design the housing entirely according to your wishes.

The CH20M housing is also suitable for standard mounting rails, which makes installation and integration into existing systems easier.

General ordering data

Version	Modular housing, OMNIMATE Housing - series CH20M red, Base element, Width: 22.5 mm
Order No.	<u>1206870000</u>
Туре	CH20M22 B RD/BK 2014
GTIN (EAN)	4032248988761
Qty.	10 items



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Technical data

rechnical data					
Approvals	_				
ROHS	Conform				
Dimensions and weights					
Depth	108 mm	Depth (inches)		4.252 inch	
Height	109.3 mm	Height (inches)		4.3031 inch	
Width	22.5 mm	Width (inches)		0.8858 inch	
Net weight	33.48 g				
Temperatures					
Ambient temperature	-25 °C85 °C	Operating temperature	range	-40120 ℃	
Humidity	5 - 93% rel. humidity, Tu = 40°C, no condensation	<u> </u>			
Environmental Product Compl	•				
RoHS Compliance Status	Compliant without exemption				
REACH SVHC	No SVHC above 0.1 wt%				
Material data					
UL 94 flammability rating	V-0	Insulating material		PA 66 GF 30	
Insulating material group	1	Surface finish		untreated	
Basic material	Plastic	Comparative Tracking Index (CTI)		600 ≤ CTI	
General data					
Colour	red	Protection degree		IP20 in installed state	
Mounting rail	TS 35	Colour chart (similar)		RAL 3020	
Encapsulation option	No				
Assembly properties					
Number of slots for female connectors o	f6	Number of PCBs, max		1	
the mounted assembly, max.		realiser of 1 obe, max		•	
Number of connection levels, max.	3	Number of poles, max		24	
Height of components on the PCB, max.	16.1 mm	Type of assembly of th	e PCB	double-sided	
Mechanical tests					
Assembly to Characterial	DINI ENI C1979-1000 /-hl-				
According to Standard	DIN EN 61373:1999 (shock and vibration) five housings installed in a row, 200g additional weight on the PCB				
Test conditions		w, Zoog additional Weig	int on the PCB		
Proved axles	X, Y, Z	A 11			
Shock test	General test advices	set spe	up, or in view of d	were tested on examplary epending regulation. The lot replace approval relevan rientation values.	
	Test category	1			
	Number of shocks per axle		3 in positive and negative direction		
	Shock duration		30 ms		
	Acceleration horizontal		30.00 m/s ²		
	Acceleration vertical		30.00 m/s ²		
			00 / 2		

Creation date 28.11.2025 09:14:38 MEZ

Vibration test

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Acceleration longitudinal

Test category

Test duration

50.00 m/s²

5 hours per axle

1B



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	Effective acceleration	7.9 m/s²			
Thermal tests					
Th	Company to a to a design a	All the surred to the state of	and to the deal on account on the		
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 relevan			
	T	tests. They are just orientation values.			
	Test conditions	three housings installed in a row - no spacing			
	Test axles	horizontal			
	Ambient temperature	70 °C			
	Power dissapation, max.	1.9 W 60 °C			
	Ambient temperature Power dissapation, max.	2.35 W			
	Ambient temperature	2.35 W			
	Power dissapation, max.	3.4 W			
	Ambient temperature	20 °C			
	Power dissapation, max.	4.5 W			
0	1 over dissapation, max.	4.0 **			
Component properties			<u>'</u>		
Color of clip-on foot	black	Number of connection levels, max.	3		
Design - IN requirements					
Tolerance for the PCB shape	±0.1 mm	PCB thickness	1.6 mm		
Tolerance of circuit board thickness	±0.15 mm	1 OD UNIONICOS	1.0 11111		
Individualization options					
Customer specific labelling possible	Yes	Customer specific order process	See guideline under		
Sustainer specific labelling possible			downloads		
Alternitive colours	More on request	Processing possibilities	Laser processing		
Important note					
Product information		cted zones, and other information for the y connection technology under the corre	•		
Classifications					
ETIM 8.0	EC001031	ETIM 9.0	EC001031		
TIM 10.0	EC001031	ECLASS 11.0	27-18-27-92		
ECLASS 12.0	27-18-27-92	ECLASS 13.0	27-19-06-01		
ECLASS 14.0	27-19-06-01	ECLASS 15.0	27-19-06-01		

Catalogue status / Drawings

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Drawings

Product image



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

Dimensioned drawing

