

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com







Scalability, individual design and cost efficiency The CH20M45 modular electronics housing offers you efficiency, flexibility and design at its best - the perfect solution for your electronics applications. With a width of just 45 mm, it is possible to install two PCBs and offers both SPE and RJ45 connection options. This housing impresses with its scalability and cost efficiency, ideal for applications with increased space requirements, such as small controllers or power supplies.

Automated THT and THR soldering processes, coding options and CAD data ensure efficient production. Various connection technologies, including screw and tension clamp connections, enable application-specific design. The sophisticated synergy of design, connection technology and functionality ensures a safe, user-friendly and market-driven solution.

As a premium housing, the modular CH20M45 housing offers a durable and robust design.

Perfect for anyone who values quality, safety and a scalable housing concept.

General ordering data

Version	Electronics housing sample, OMNIMATE Housing - series CH20M black, Sample kit for developers, consisting of individual parts incl. female plug, Complete enclosure, Connection technology, Width: 45 mm
Order No.	<u>1519430000</u>
Type	SAMPLE CH20M45 20/02
GTIN (EAN)	4050118327069
Qty.	1 items

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Technical data

Approvals			
ROHS	Conform		
Dimensions and weights			
	110.0	5 4 6 4 3	4.4704:
Depth	113.6 mm	Depth (inches)	4.4724 inch
Height	117.2 mm	Height (inches)	4.6142 inch
Width Length	45 mm	Width (inches) Net weight	1.7716 inch 145.64 g
	0 mm	Net weight	145.64 g
Temperatures			
Installation temperature	-25 °C85 °C	Humidity	5 - 93% rel. humidity, Tu = 40°C, no condensation
Environmental Product Comp	liance		
RoHS Compliance Status	Compliant without exemption	an an	
REACH SVHC	No SVHC above 0.1 wt%	ות	
	NO SVITE above 0.1 Wt //		
Rated data acc. to IEC			
Rated current, max. number of poles (Tu=20°C)	10 A	Rated current, max. number of poles (Tu=40°C)	9 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			
III. O4 flamma a bilita matin m	V 0	la coloria a no storio	DA CC CE 20
UL 94 flammability rating	V-0	Insulating material	PA 66 GF 30
Insulating material group Basic material	Plastic	Surface finish Comparative Tracking Index (CTI)	untreated 400 ≤ CTI <600
General data	Plastic	Comparative Tracking Index (CTI)	400 ≤ C11 < 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			
T. L. C. H. DOD. L	10.4	POP II : I	1.0
Tolerance for the PCB shape Tolerance of circuit board thickness	±0.1 mm ±0.15 mm	PCB thickness	1.6 mm
Assembly properties			
Number of connection levels	2	Number of ventilation openings	8
Number of poles	4	Cross-connection	No
Type of contact to PCB	Solder connection, direct	Type of connection	pluggable

Creation date 29.11.2025 07:18:03 MEZ

Catalogue status / Drawings





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Housing properties

Flip cover mountable	Yes	Marker integrateable	Yes	
Cut out as preperation for functional portNo integrated		Color of clip-on foot	orange	
Cross-connection	No	Number of connection levels	2	
Number of poles	4			

Connectable coducteurs

Wire connection method	Clamping yoke connection	Stripping length	8 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	Flexible, min. H05(07) V-K	0.2 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 mm² max.	
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	w. wire end ferrule, DIN 46228 pt 1, 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	27-19-05-01	ECLASS 14.0	27-19-01-01
ECLASS 15.0	27-19-01-01		

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Drawings











