CH20M17 B BUS BK/BK 2010

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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 CH20M17 modular electronics housing is the ideal housing solution for compact standard 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 EMC-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 black, Width: 17.5 mm
Order No.	1366280000
Type	CH20M17 B BUS BK/BK 2010
GTIN (EAN)	4050118167726
Qty.	12 pc(s).

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Technical data

Dimensions and weights

Depth	107.4 mm	Depth (inches)	4.228 inch
Height	109.3 mm	Height (inches)	4.303 inch
Width	17.5 mm	Width (inches)	0.689 inch
Net weight	29.858 g		

Temperatures

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

Component Properties

Color of clip-on foot	black	Cut out in clip-on foot area as preperation for	BUS-contact, contact not included!
Number of connection levels, max.	3		

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	80 °C
	Power dissapation, max.	0.9 W
	Ambient temperature	60 °C
	Power dissapation, max.	1.7 W
	Ambient temperature	40 °C
	Power dissapation, max.	2.45 W
	Ambient temperature	20 °C
	Power dissapation, max.	3.2 W

Assembly properties

Number of slots for female connectors of the mounted assembly, max.	6	Number of PCBs, max.	1
Number of connection levels, max.	3	Number of poles, max.	18
Height of components on the PCB, max.	11.1 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	Yes	Customer specific order process	See guideline under downloads
Processing possibilities	Laser processing		

General data

Colour	black	Colour chart (similar)	RAL 9011
Encapsulation option	No	Protection degree	IP20 in installed state
Rail	TS 35		

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Material data

Comparative Tracking Index (CTI)	600 ≤ CTI	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
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	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	CAD data – STEP
	CAD data – PCB_position_70149_LP-POSITION_17MM
	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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Drawings

Product image
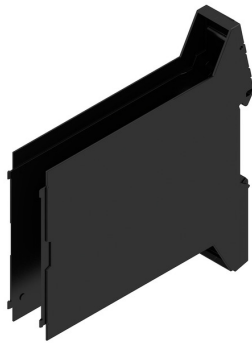
Product benefits
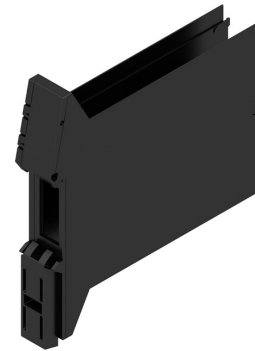
Base element including BUS cut-out

Dimensioned drawing