UCS 237-195-F-GD 7035 - Universal housings

2203341

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Complete housing for PCBs, can be positioned flexibly; includes housing half shells, side panels closed, adhesive domes for PCB attachment, screws for housing and PCB attachment; light gray housing with turquoise blue corner inlays

Your advantages

- High degree of application flexibility, thanks to the modular housing design
- Flexible PCB attachment, adapts to virtually all form factors
- Practical customization options
- Reduced logistics outlay, thanks to components which are compatible with one another

Commercial data

Item number	2203341
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ACFCAA
GTIN	4055626404523
Weight per piece (including packing)	740 g
Weight per piece (excluding packing)	446.56 g
Customs tariff number	84879090
Country of origin	DE

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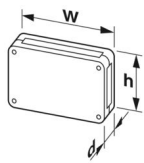## Technical data

Notes

Assembly note	The housing can be opened a maximum of 10 times.
Note on application	Attach the adhesive pads: Make sure that the surface of the housing is clean, dry, and free of grease. Temperature range: +18°C ... +30°C / Closing pressure force: 60 N / Closing pressure time: 3 s

Product properties

Product type	Complete housing
Housing type	Universal housings
Housing series	UCS
Product family	UCS 237-195
Type	Flat design (GD)
Ventilation openings present	no

Dimensions

Dimensional drawing	
Width	237 mm
Height	195 mm
Depth	47 mm
Dimensions	212 mm x 170.2 mm (Maximum circuit board dimensions)

PCB design	
PCB thickness	0.8 mm ... 3 mm

Material specifications

Color (Housing)	light grey (RAL 7035)
Flammability rating according to UL 94	V0
CTI according to IEC 60112	225
Insulating material	PC
Housing material	PC
Surface characteristics	untreated

Environmental and real-life conditions

Power dissipation single housing for 20 °C	
Ambient temperature	20 °C
Reduction factor	1
Mounting position	vertical

Power dissipation	31 W

Power dissipation single housing for 30 °C	
Ambient temperature	30 °C
Reduction factor	0.8
Mounting position	vertical
Power dissipation	25.5 W

Power dissipation single housing for 40 °C	
Ambient temperature	40 °C
Reduction factor	0.65
Mounting position	vertical
Power dissipation	20.3 W

Power dissipation single housing for 50 °C	
Ambient temperature	50 °C
Reduction factor	0.5
Mounting position	vertical
Power dissipation	15.5 W

Power dissipation single housing for 60 °C	
Ambient temperature	60 °C
Reduction factor	0.32
Mounting position	vertical
Power dissipation	10 W

Vibration test	
Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.15 mm (10 Hz ... 58.1 Hz)
Acceleration	2g (58.1 Hz ... 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis

Glow-wire test	
Specification	IEC 60695-2-11:2014-02
Temperature	850 °C
Time of exposure	30 s

Thermal stability / ball thrust test	
Specification	IEC 60695-10-2:2014-02
Temperature	125 °C
Test duration	1 h
Force	20 N

Mechanical strength / tumbling barrel	
Specification	IEC 60068-2-31:2008-05

| Height of fall | 50 cm |
| Frequency | 50 |

Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Half-sine
Acceleration	15g
Shock duration	11 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

Test for substances that would hinder coating with paint or varnish

| Specification | VW PV 3.10.7:2005-02 |
| Result | Test passed |

Degree of protection (IP code)

| Specification | IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08 |
| Result, degree of protection, IP code | IP40 |

Ambient conditions

Max. IP code to attain	IP40
Ambient temperature (operation)	-40 °C ... 105 °C (depending on power dissipation)
Ambient temperature (storage/transport)	-40 °C ... 55 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Relative humidity (storage/transport)	80 %

PCB data

Number of PCB holders	1
Type of PCB mount	Bolt mounting
Total PCB surface	36040 mm²
Thickness of the PCB	0.8 mm ... 3 mm
Supported form factors	EPIC, ETX, Nano-ITX, PC/104, Pico-ITX, Raspberry Pi, Mini-DTX, Mini-ITX, EBX
Note on PCB holders	This product is prepared for a printed-circuit board. Additional printed-circuit boards can be mounted using adhesive pads (accessories).

Mounting

Mounting type	Screw mounting
Mounting position	any
Tightening torque / speed	Screw connection between housing halves: 1.2 Nm-1.4 Nm / 500 rpm-1000 rpm
	Mounting the PCB: 0.4 Nm-0.5 Nm / 500 rpm-1000 rpm

Packaging specifications

| Type of packaging | Box packaging |

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Drawings

Dimensional drawing
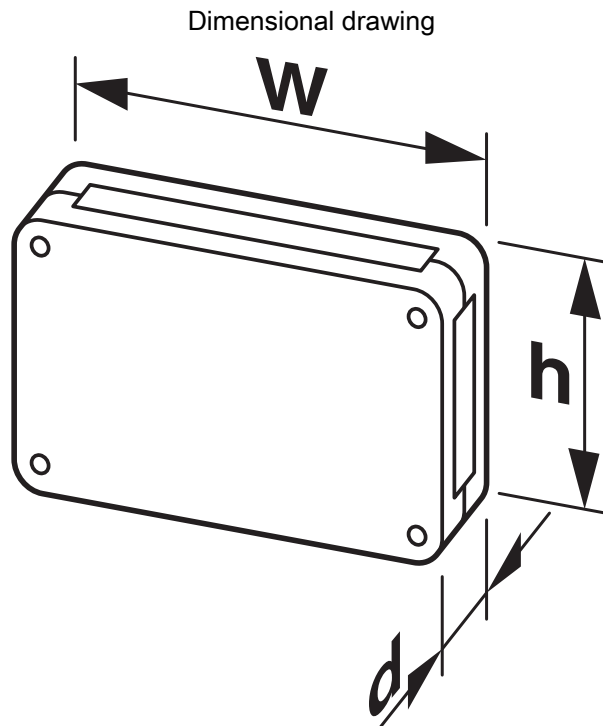
Schematic representation – for additional information, see product range drawing in the Download Center

Approvals

🔆 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2203341

UL Recognized
Approval ID: FILE E 240868

Classifications

ECLASS

ECLASS-11.0	27182702
ECLASS-13.0	27190603

ETIM

ETIM 9.0	EC001031

UNSPSC

UNSPSC 21.0	31261500

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%