

# UCS HH 87-87 9005 - Housing half-shell



1290569

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Housing half-shell for creating a UCS housing of dimensions 87 x 87 mm; material: polycarbonate; color: black, similar to RAL 9005



## Your advantages

- High degree of application flexibility, thanks to the modular housing design
- Can be used universally thanks to extensive accessories
- Practical customization options
- High degree of application flexibility with various depths, 47 mm and 67 mm

## Commercial data

Item number	1290569
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AC03
Product key	ACFCAA
GTIN	4063151520991
Weight per piece (including packing)	50.65 g
Weight per piece (excluding packing)	34.87 g
Customs tariff number	84879090
Country of origin	DE

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## Technical data

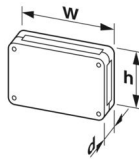
### Notes

Assembly note	Please observe the application note in the download area.
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### Product properties

Product type	Housing half shells
Housing type	Universal housings
Housing series	UCS
Product family	UCS 87-87
Ventilation openings present	no

### Dimensions

Dimensional drawing	
Width	87 mm
Height	87 mm
Depth	21.8 mm

### PCB design

PCB thickness	0.8 mm ... 3 mm
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### Material specifications

Color (Housing)	black (RAL 9005)
Material Housing	PC
Flammability rating according to UL 94	V0
CTI according to IEC 60112	225
Insulating material	PC

### Environmental and real-life conditions

#### Power dissipation single housing for 20 °C

Ambient temperature	20 °C
Reduction factor	1
Mounting position	vertical
Power dissipation	6.4 W

#### Power dissipation single housing for 30 °C

Ambient temperature	30 °C
Reduction factor	0.85
Mounting position	vertical

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Power dissipation	5.45 W
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## Power dissipation single housing for 40 °C

Ambient temperature	40 °C
Reduction factor	0.68
Mounting position	vertical
Power dissipation	4.35 W

## Power dissipation single housing for 50 °C

Ambient temperature	50 °C
Reduction factor	0.55
Mounting position	vertical
Power dissipation	3.5 W

## Power dissipation single housing for 60 °C

Ambient temperature	60 °C
Reduction factor	0.4
Mounting position	vertical
Power dissipation	2.55 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

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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	VDMA 24364:2018-05
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 ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Relative humidity (storage/transport)	95 %

## PCB data

Type of PCB mount	Bolt mounting
Total PCB surface	3600 mm <sup>2</sup>
Thickness of the PCB	0.8 mm ... 3 mm

## Mounting

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

## Packaging specifications

Type of packaging	Box packaging
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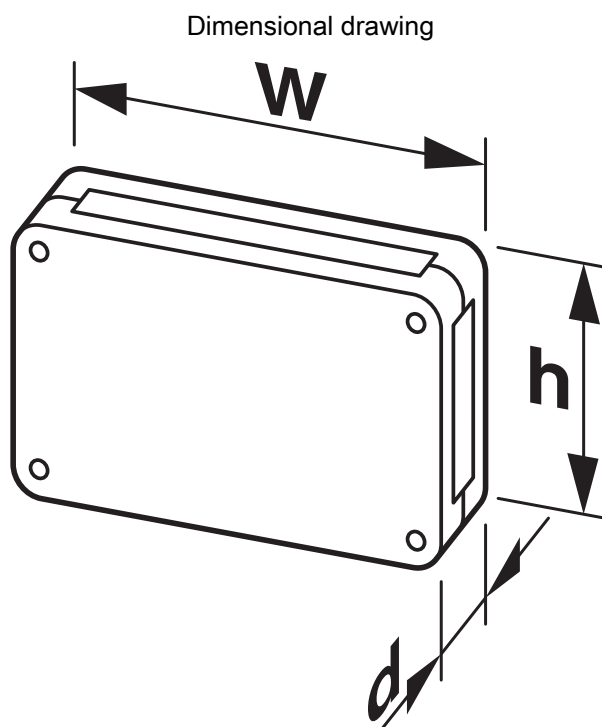
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## Drawings



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1290569>



**UL Recognized**

Approval ID: E240868

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## Classifications

### ECLASS

ECLASS-13.0	27190603
ECLASS-15.0	27190603

### ETIM

ETIM 10.0	EC002779
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### UNSPSC

UNSPSC 21.0	31261500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

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

### EU REACH SVHC

REACH candidate substance (CAS No.)	Perfluorobutane sulfonic acid (PFBS) and its salts(CAS: n/a)
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)