

# UCS 195-145-F-GD 9005 - Universal housings

2203337

<https://www.phoenixcontact.com/us/products/2203337>



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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; housing: black 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                          | 2203337       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AC03          |
| Product key                          | ACFCAA        |
| GTIN                                 | 4055626404493 |
| Weight per piece (including packing) | 612.8 g       |
| Weight per piece (excluding packing) | 610.9 g       |
| Customs tariff number                | 84879090      |
| Country of origin                    | DE            |

## Technical data

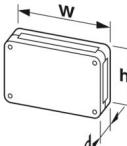
### Notes

|                     |   |
|---------------------|---|
| 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 |
| General             | Please observe the application note in the download area.   |

### Product properties

|                              |                    |
|------------------------------|--------------------|
| Product type                 | Complete housing   |
| Housing type                 | Universal housings |
| Housing series               | UCS                |
| Product family               | UCS 195-145        |
| Ventilation openings present | no                 |

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 195 mm   |
| Height              | 145 mm   |
| Depth               | 47 mm  |
| Dimensions          | 170 mm x 120 mm (Maximum circuit board dimensions)                                   |

### PCB design

|               |                 |
|---------------|-----------------|
| PCB thickness | 0.8 mm ... 3 mm |
|---------------|-----------------|

### Material specifications

|  |                            |
|--|----------------------------|
| Color (Housing)                        | black (RAL 9005)           |
| Color (Corner inlay)                   | turquoise green (RAL 5018) |
| Material Housing                       | PC                         |
| Material Corner inlay                  | PA                         |
| Flammability rating according to UL 94 | V0                         |
| CTI according to IEC 60112             | 225                        |
| Surface characteristics                | untreated                  |

### Environmental and real-life conditions

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

|                     |       |
|---------------------|-------|
| Ambient temperature | 20 °C |
| Reduction factor    | 1     |

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|                   |          |
|-------------------|----------|
| Mounting position | vertical |
| Power dissipation | 19 W     |

Power dissipation single housing for 30 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 30 °C    |
| Reduction factor    | 0.83     |
| Mounting position   | vertical |
| Power dissipation   | 15.7 W   |

Power dissipation single housing for 40 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 40 °C    |
| Reduction factor    | 0.66     |
| Mounting position   | vertical |
| Power dissipation   | 12.5 W   |

Power dissipation single housing for 50 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 50 °C    |
| Reduction factor    | 0.49     |
| Mounting position   | vertical |
| Power dissipation   | 9.3 W    |

Power dissipation single housing for 60 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 60 °C    |
| Reduction factor    | 0.32     |
| Mounting position   | vertical |
| Power dissipation   | 6 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

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|                |                        |
|----------------|------------------------|
| 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      | 14400 mm <sup>2</sup>   |
| Thickness of the PCB   | 0.8 mm ... 3 mm   |
| Supported form factors | EPIC, ETX, Nano-ITX, PC/104, Pico-ITX, Raspberry Pi   |
| 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

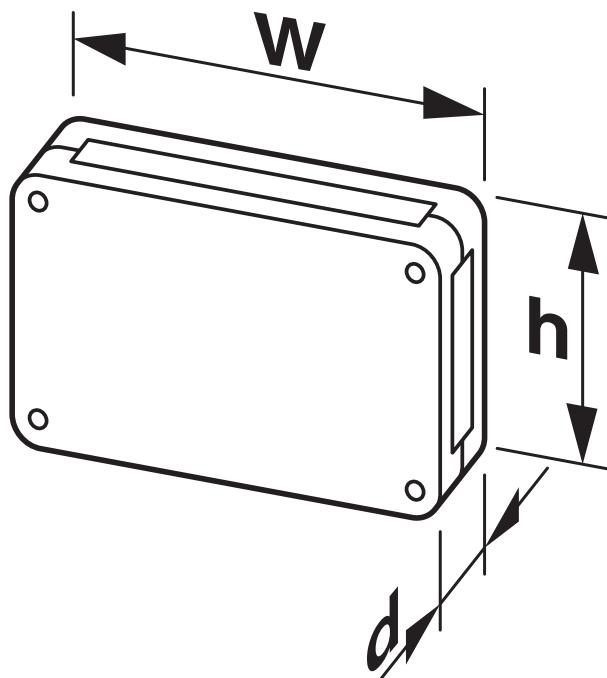
|                           |  |
|---------------------------|--|
| Mounting type             | Screw mounting   |
| Mounting position         | any  |
| Tightening torque / speed | Screw connection between housing halves: 1.2 - 1.4 Nm / 500 - 1000 rpm |
|                           | Mounting the PCB: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

## Packaging specifications

|                   |               |
|-------------------|---------------|
| Type of packaging | Box packaging |
|-------------------|---------------|

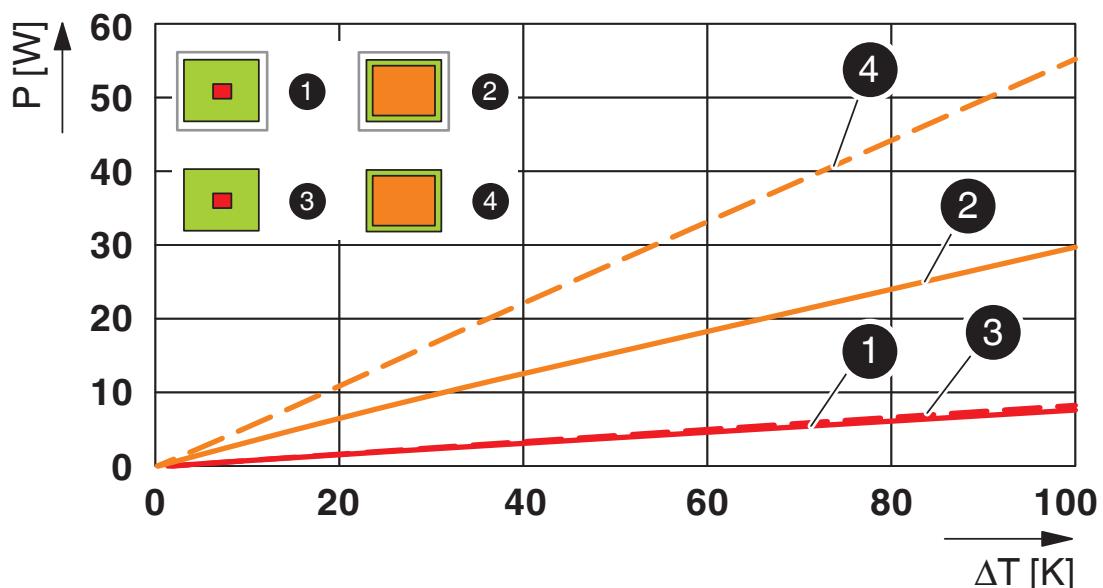
## Drawings

Dimensional drawing



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

Diagram

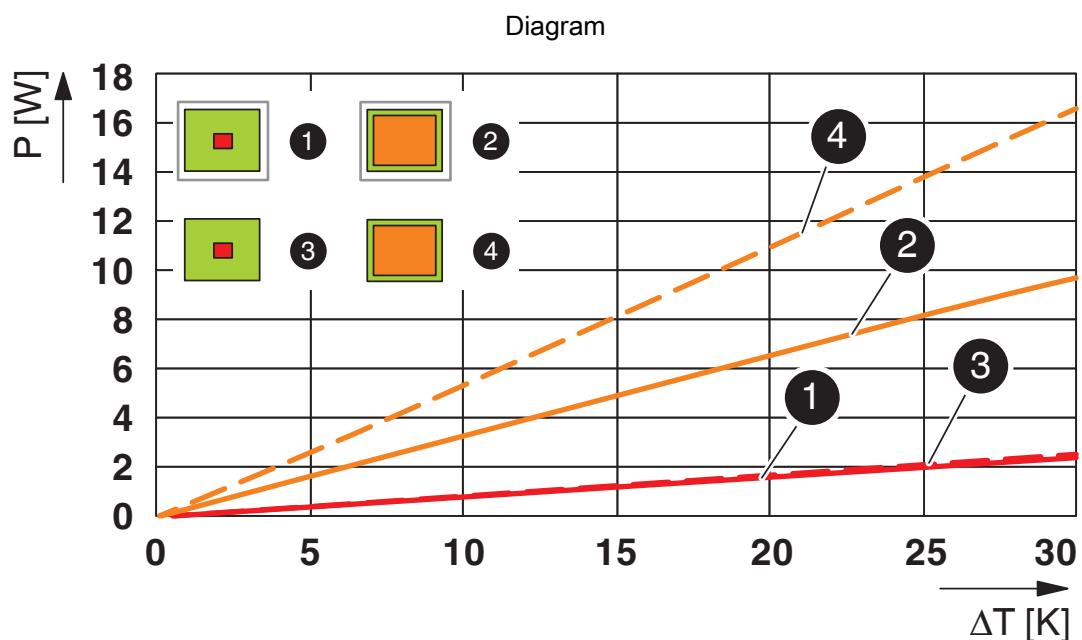


Power dissipation diagram for 0 K ... 100 K

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Power dissipation diagram for 0 K ... 30 K

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2203337>



**UL Recognized**  
Approval ID: E240868

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27190104 |
| ECLASS-15.0 | 27190104 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001031 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31261500 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|  |                    |
|--|--------------------|
| Fulfils 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.) | Perfluorobutane sulfonic acid (PFBS) and its salts(CAS: n/a) |
|-------------------------------------|--|

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