

# UCS 125-87-F-CCD 7035 - Universal housings



2203443

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Complete housing for PCBs, fixed to the corner inlays, includes housing half-shells, side panels closed, corner inlays with 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                          | 2203443                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AC03                           |
| Product key                          | ACFCAA                         |
| GTIN                                 | 4055626403311                  |
| Weight per piece (including packing) | 314.2 g                        |
| Weight per piece (excluding packing) | 330.9 g                        |
| Customs tariff number                | 84879090                       |
| Country of origin                    | DE                             |

## Technical data

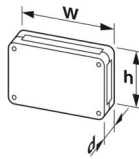
### Notes

|                     |   |
|---------------------|---|
| 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                 | Field housing      |
| Housing type                 | Universal housings |
| Housing series               | UCS                |
| Product family               | UCS 125-87         |
| Ventilation openings present | no                 |

### Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 125 mm   |
| Height              | 87 mm  |
| Depth               | 47 mm  |
| Dimensions          | 100 mm x 62 mm (Maximum circuit board dimensions)                                    |

### PCB design

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

### Material specifications

|  |                            |
|--|----------------------------|
| Color (Housing)                        | light gray (RAL 7035)      |
| 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                        |

### 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 | 9.7 W    |

## Power dissipation single housing for 30 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 30 °C    |
| Reduction factor    | 0.85     |
| Mounting position   | vertical |
| Power dissipation   | 8.3 W    |

## Power dissipation single housing for 40 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 40 °C    |
| Reduction factor    | 0.68     |
| Mounting position   | vertical |
| Power dissipation   | 6.5 W    |

## Power dissipation single housing for 50 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 50 °C    |
| Reduction factor    | 0.55     |
| Mounting position   | vertical |
| Power dissipation   | 5.4 W    |

## Power dissipation single housing for 60 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 60 °C    |
| Reduction factor    | 0.4      |
| Mounting position   | vertical |
| Power dissipation   | 3.9 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     | 6000 mm <sup>2</sup>  |
| Thickness of the PCB  | 0.8 mm ... 3 mm   |
| 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<br>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   |

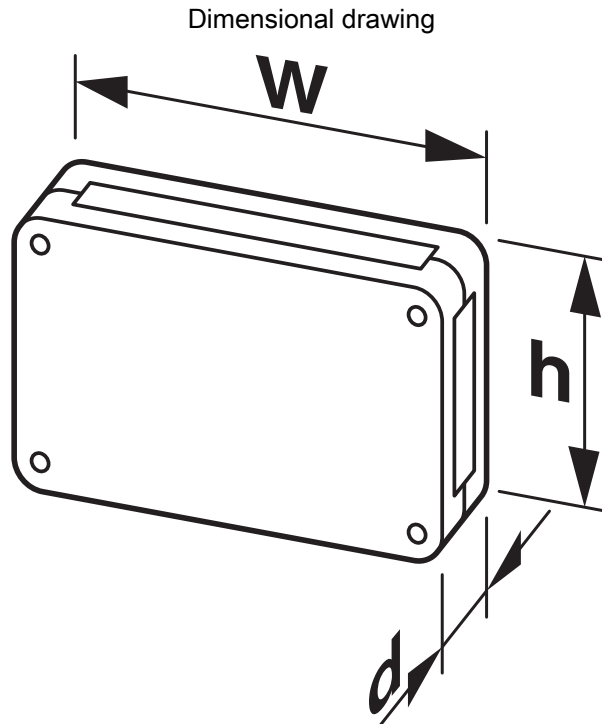
## Packaging specifications

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

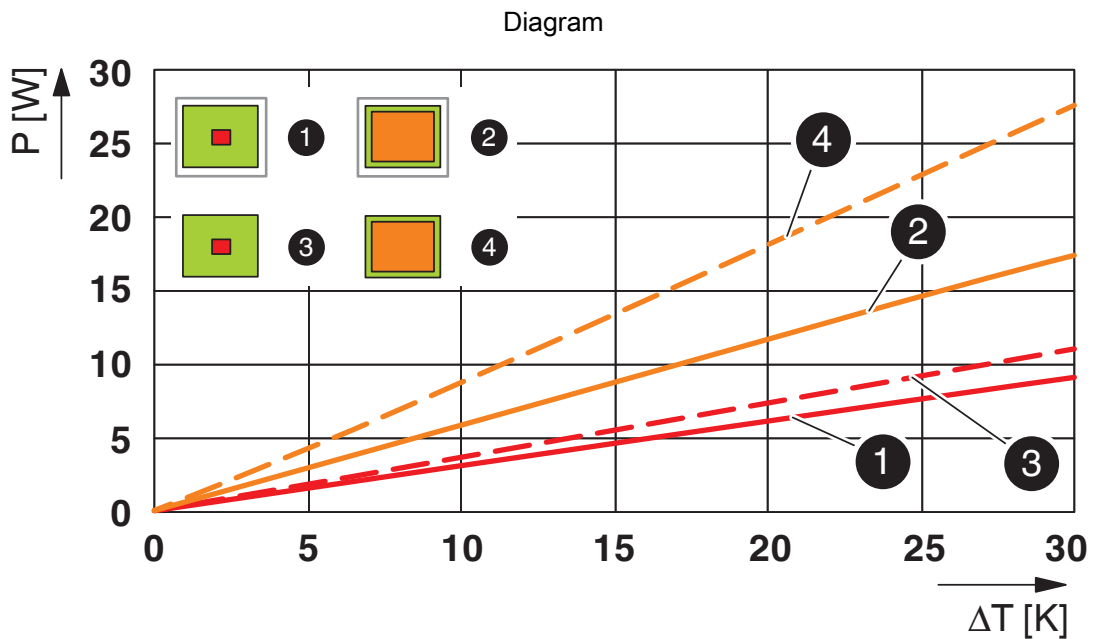
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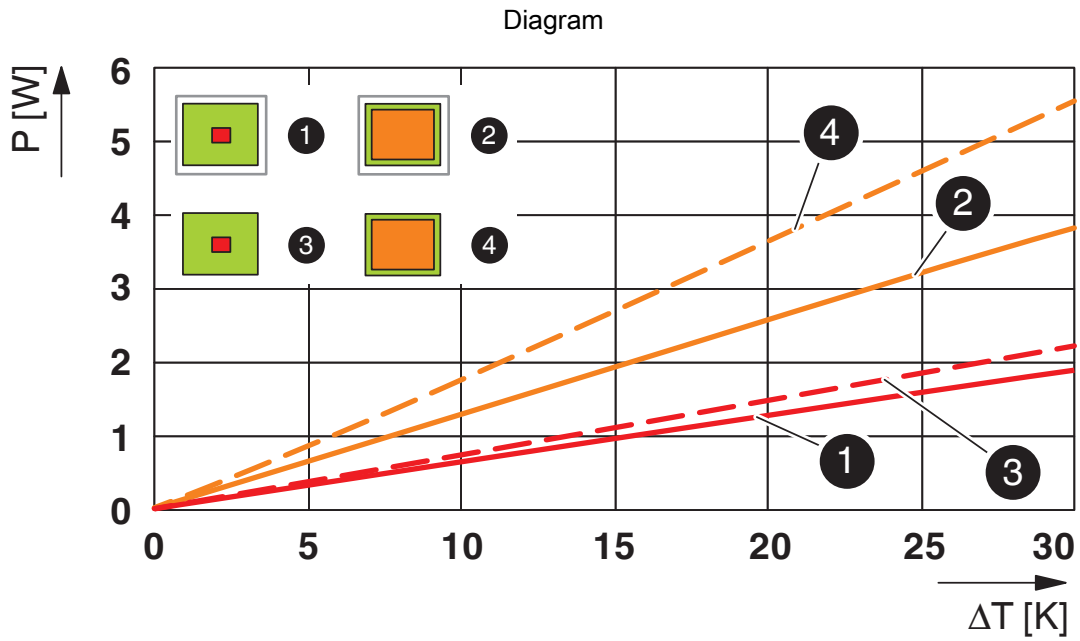
Drawings



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



Power dissipation diagram for 0 K ... 100 K



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/2203443>



**UL Recognized**

Approval ID: E240868

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001031 |
|-----------|----------|

### UNSPSC

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

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

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