

MCS-156X127X65-IP40-7035 - Electronics housing

1524052

<https://www.phoenixcontact.com/us/products/1524052>



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Electronics housing, color: light gray (similar RAL 7035), degree of protection: IP40, dimensions: 156 x 127 x 65 mm, includes upper housing part, lower housing part, screws for housing and PCB mounting

Your advantages

- Convenient operation during device installation and maintenance thanks to optional hinges on the housing cover
- Flexible mounting thanks to the optional adapter plate
- Safe operation with the right degree of protection
- Individualized product selection due to the modular system
- Optimized PCB installation: PCB can be installed in a nearly horizontal orientation thanks to the angled housing edge

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1524052 |
| Packing unit | 5 pc |
| Minimum order quantity | 5 pc |
| Sales key | AC04 |
| Product key | ACFFAA |
| GTIN | 4063151990947 |
| Weight per piece (including packing) | 444 g |
| Weight per piece (excluding packing) | 358.8 g |
| Customs tariff number | 84879090 |
| Country of origin | DE |

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Technical data

Notes

| | |
|---------------------|---|
| Recommendation | Further information and detailed dimensions are available in the download area. |
| Assembly note | Tighten the mounting screws crosswise. |
| Note on application | We recommend the MCS-H-40-3031 living hinge so the housing parts can be removed without losing them. |
| PCB surface | The PCB surface specification is for orientation purposes and is based on a basic PCB. The housing can also accommodate several PCBs. |

Product properties

| | |
|---------------------|------------------|
| Product type | Complete housing |
| Housing type | Field housing |
| Housing series | MCS |
| Product family | MCS-156X127 |
| Battery compartment | no |
| Ventilation | yes |

Dimensions

| | |
|---------------------|--------|
| Dimensional drawing | |
| Width | 156 mm |
| Height | 127 mm |
| Depth | 65 mm |

PCB design

| | |
|---------------|-----------------|
| PCB thickness | 0 mm ... 1.8 mm |
|---------------|-----------------|

Material specifications

| | |
|--|-----------------------|
| Color (Housing) | light gray (RAL 7035) |
| Material Housing | PA-GF |
| Material Mounting screws | Stainless steel V2A |
| Material PCB screw | Steel |
| Flammability rating according to UL 94 | V0 |
| CTI according to IEC 60112 | 600 |
| Surface characteristics | untreated |

Environmental and real-life conditions

Vibration test

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| | |
|------------------------|-----------------------------|
| 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 60695-2-11:2021-10 |
| 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 | 10 |

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 | 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 |
| Max. NEMA code to attain | 1 |
| Impact strength | IK07 |
| Ambient temperature (operation) | -40 °C ... 85 °C (depending on power dissipation) |
| Ambient temperature (storage/transport) | -40 °C ... 55 °C |
| Ambient temperature (assembly) | -5 °C ... 85 °C |

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| | |
|---------------------------------------|------|
| Relative humidity (storage/transport) | 80 % |
|---------------------------------------|------|

PCB data

| | |
|-----------------------|-----------------------|
| Number of PCB holders | 2 |
| Type of PCB mount | Bolt mounting |
| Total PCB surface | 15500 mm ² |
| Thickness of the PCB | 0 mm ... 1.8 mm |

Mounting

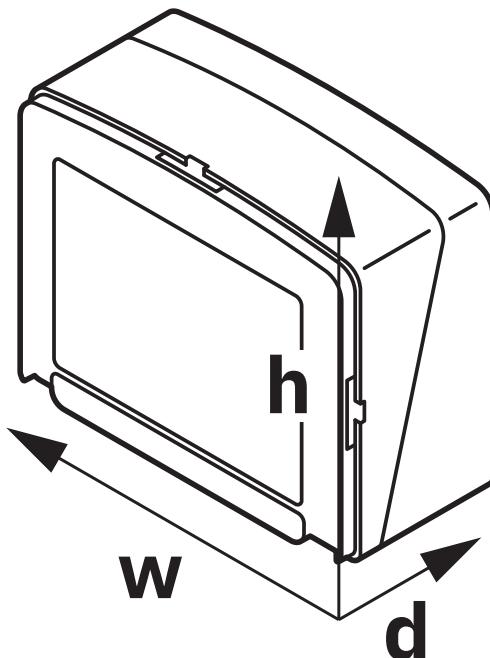
| | |
|--|--|
| Mounting type | Panel mounting |
| Mounting position | any |
| Mounting (Screw connection between housing halves) | 2.2 Nm ... 2.5 Nm (Torx® (TX 20)) |
| Mounting (Mounting the PCB) | 0.5 Nm (Torx® with longitudinal slot (TX 7)) |

Packaging specifications

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

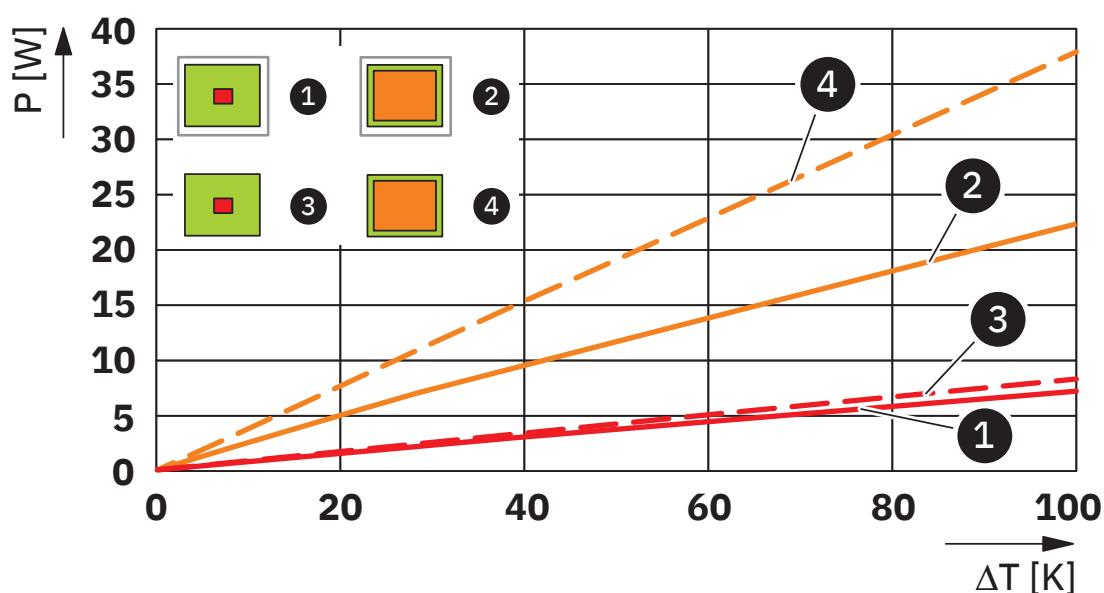
Drawings

Dimensional drawing

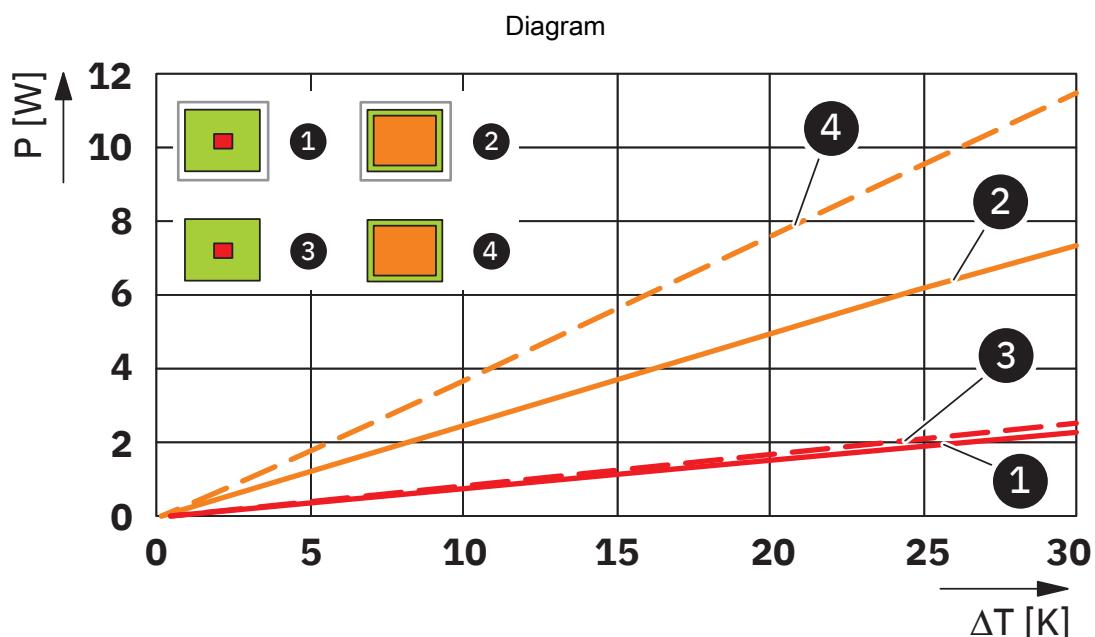


Schematic representation – for additional information, see product range drawing in the Download Center

Diagram



Power dissipation diagram for 0 K ... 100 K



Power dissipation diagram for 0 K ... 30 K

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27190103 |
| ECLASS-15.0 | 27190103 |

ETIM

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

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% |
|-------------------------------------|----------------------------|

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