

# ME 22,5 UT/FE BUS/10 KMGY - Mounting base housing



2854047

<https://www.phoenixcontact.com/us/products/2854047>

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DIN rail housing, Lower housing part with metal foot catch, with FE contact, tall design, with vents, width: 22.6 mm, height: 99 mm, depth: 107.3 mm, color: light gray (similar RAL 7035), cross connection: integrated bus connector, number of positions cross connector: 10, Bus connector: 10 parallel contacts

## Your advantages

- Tool-free mounting
- Available in overall widths from 12.5 mm ... 90 mm, modular extension is possible
- Flammability rating V0 in accordance with UL 94
- Variety of connection technology
- Can be mounted on the DIN rail
- With integrated or DIN-rail-mountable bus connector as an option

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2854047       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | AC08          |
| Product key                          | ACHAAB        |
| GTIN                                 | 4017918459116 |
| Weight per piece (including packing) | 65.7 g        |
| Weight per piece (excluding packing) | 42.178 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

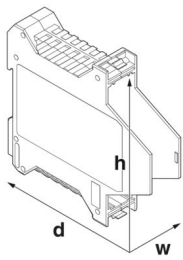
### Notes

|                |   |
|----------------|---|
| Assembly note  | Please observe the application note in the download area.             |
| Recommendation | Material of contact pads for bus connector, galvanic gold (hard gold) |

### Product properties

|                              |  |
|------------------------------|--|
| Product type                 | Lower housing part   |
| Housing type                 | DIN rail housing   |
| Housing type                 | Modular housings   |
| Housing series               | ME   |
| Product family               | ME 22,5..  |
| Type                         | Lower housing parts with vents, housing cover necessary to complete the module |
| Max. number of positions     | 0)   |
| Ventilation openings present | yes  |

### Dimensions

|  |  |
|--|--|
| Dimensional drawing  |  |
| Width  | 22.6 mm  |
| Height   | 99 mm  |
| Depth  | 107.3 mm   |
| Depth from top edge of DIN rail                                | 100.7 mm   |
| Depth from top edge of DIN rail to support point on upper part | 68.5 mm  |

### PCB design

|               |                   |
|---------------|-------------------|
| PCB thickness | 1.4 mm ... 1.8 mm |
|---------------|-------------------|

### Material specifications

|  |                       |
|--|-----------------------|
| Color (Lower housing part)             | light gray (RAL 7035) |
| Material Lower housing part            | PA                    |
| Flammability rating according to UL 94 | V0                    |
| CTI according to IEC 60112             | 600                   |

### Environmental and real-life conditions

Power dissipation single housing for 20 °C

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|                     |          |
|---------------------|----------|
| Ambient temperature | 20 °C    |
| Reduction factor    | 1        |
| Mounting position   | vertical |
| Power dissipation   | 6.1 W    |

## Power dissipation single housing for 30 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 30 °C    |
| Reduction factor    | 0.91     |
| Mounting position   | vertical |
| Power dissipation   | 5.5 W    |

## Power dissipation single housing for 40 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 40 °C    |
| Reduction factor    | 0.81     |
| Mounting position   | vertical |
| Power dissipation   | 4.9 W    |

## Power dissipation single housing for 50 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 50 °C    |
| Reduction factor    | 0.7      |
| Mounting position   | vertical |
| Power dissipation   | 4.3 W    |

## Power dissipation single housing for 60 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 60 °C    |
| Reduction factor    | 0.57     |
| Mounting position   | vertical |
| Power dissipation   | 3.5 W    |

## Power dissipation single housing for 70 °C

|                     |          |
|---------------------|----------|
| Ambient temperature | 70 °C    |
| Reduction factor    | 0.49     |
| Mounting position   | vertical |
| Power dissipation   | 3.1 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                 |

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|                  |      |
|------------------|------|
| 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 60998-1:2002-12 |
| 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.) |

## Degree of protection (IP code)

|               |   |
|---------------|---|
| Specification | IEC 60529:1989-11 + AMD 1:1999-11 + AMD 2:2013-08 |
|---------------|---|

## Ambient conditions

|   |  |
|---|--|
| Max. IP code to attain                  | IP20   |
| 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     | Insertion (optional latching by PCB stop) |
| Thickness of the PCB  | 1.4 mm ... 1.8 mm                         |

## Mounting

|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

## Packaging specifications

|                      |                     |
|----------------------|---------------------|
| Type of packaging    | packed in cardboard |
| Outer packaging type | Carton              |

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## Drawings

Dimensional drawing



Schematic figure for illustrating the item dimensions. The figure is not of the desired product. For further details, refer to the product drawings in the "Downloads" tab.

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2854047>

|  <b>cUL Recognized</b><br>Approval ID: FILE E 60425 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B  |                       |                       |                   |                             |
|  | 300 V                 | 8 A                   | -                 | -                           |
| D  |                       |                       |                   |                             |
|  | 300 V                 | 8 A                   | -                 | -                           |

|  <b>UL Recognized</b><br>Approval ID: FILE E 60425 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B   |                       |                       |                   |                             |
|   | 300 V                 | 8 A                   | -                 | -                           |
| D   |                       |                       |                   |                             |
|   | 300 V                 | 8 A                   | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27190601 |
| ECLASS-15.0 | 27190601 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002779 |
|-----------|----------|

### 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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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