ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

2890108


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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 grey (7035), cross connection: integrated bus connector, number of positions cross connector: 10+2, Bus connector: 10 parallel contacts, 2 serial contacts

Your advantages

• Tool-free mounting
• Available in overall widths from 12.5 mm to 90 mm, modular extension 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

<table>
<thead>
<tr>
<th>Item number</th>
<th>2890108</th>
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<tbody>
<tr>
<td>Packing unit</td>
<td>1 pc</td>
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<tr>
<td>Minimum order quantity</td>
<td>50 pc</td>
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<tr>
<td>Sales key</td>
<td>AC08</td>
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<td>Product key</td>
<td>ACHAAB</td>
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<tr>
<td>GTIN</td>
<td>4046356095174</td>
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<td>Weight per piece (including packing)</td>
<td>56.43 g</td>
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<td>Weight per piece (excluding packing)</td>
<td>50.9 g</td>
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<td>Customs tariff number</td>
<td>85369010</td>
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<td>Country of origin</td>
<td>DE</td>
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</table>
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

Technical data

Notes

| General | Refer to the data sheet for the range in the download area. |
| General | Material of contact pads for bus connector, galvanic gold (hard gold) |

Product properties

| Type | Lower housing parts with vents, housing cover necessary to complete the module |
| Product type | Enclosure bottom part |
| Product family | ME...UT/FE...BUS/10+2 |
| Type | Lower housing part with metal foot catch, with FE contact, tall design |
| Housing type | DIN rail housing |
| Ventilation openings present | yes |
| Housing series | ME |

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 | light grey (7035) |
| Flammability rating according to UL 94 | V0 |
| CTI according to IEC 60112 | 600 |
| Surface characteristics | untreated |
| Housing material | Polyamide |

Environmental and real-life conditions
### Power dissipation single housing for 20 °C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>20 °C</td>
</tr>
<tr>
<td>Reduction factor</td>
<td>1</td>
</tr>
<tr>
<td>Mounting position</td>
<td>vertical</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>6.1 W</td>
</tr>
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</table>

### Power dissipation single housing for 30 °C

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<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>30 °C</td>
</tr>
<tr>
<td>Reduction factor</td>
<td>0.91</td>
</tr>
<tr>
<td>Mounting position</td>
<td>vertical</td>
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<tr>
<td>Power dissipation</td>
<td>5.5 W</td>
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### Power dissipation single housing for 40 °C

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<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>40 °C</td>
</tr>
<tr>
<td>Reduction factor</td>
<td>0.81</td>
</tr>
<tr>
<td>Mounting position</td>
<td>vertical</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>4.9 W</td>
</tr>
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### Power dissipation single housing for 50 °C

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<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>50 °C</td>
</tr>
<tr>
<td>Reduction factor</td>
<td>0.7</td>
</tr>
<tr>
<td>Mounting position</td>
<td>vertical</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>4.3 W</td>
</tr>
</tbody>
</table>

### Power dissipation single housing for 60 °C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tr>
<td>Ambient temperature</td>
<td>60 °C</td>
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<tr>
<td>Reduction factor</td>
<td>0.57</td>
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<tr>
<td>Mounting position</td>
<td>vertical</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>3.5 W</td>
</tr>
</tbody>
</table>

### Power dissipation single housing for 70 °C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>70 °C</td>
</tr>
<tr>
<td>Reduction factor</td>
<td>0.49</td>
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<tr>
<td>Mounting position</td>
<td>vertical</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>3.1 W</td>
</tr>
</tbody>
</table>

### Vibration test

<table>
<thead>
<tr>
<th>Specification</th>
<th>IEC 60068-2-6:2007-12</th>
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<tbody>
<tr>
<td>Frequency</td>
<td>10 - 150 - 10 Hz</td>
</tr>
<tr>
<td>Sweep speed</td>
<td>1 octave/min</td>
</tr>
<tr>
<td>Amplitude</td>
<td>0.15 mm (10 Hz ... 58.1 Hz)</td>
</tr>
<tr>
<td>Acceleration</td>
<td>2g (58.1 Hz ... 150 Hz)</td>
</tr>
<tr>
<td>Test duration per axis</td>
<td>2.5 h</td>
</tr>
<tr>
<td>Test directions</td>
<td>X-, Y- and Z-axis</td>
</tr>
</tbody>
</table>

### Glow-wire test

|---------------------------|------------------------|
## ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

### Temperature
- **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 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)
- **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
- **Mounting position**: Vertical (horizontal DIN rail)

### Packaging specifications
- **Type of packaging**: packed in cardboard
- **Outer packaging type**: Carton

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ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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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.
## Approvals

To download certificates, visit the product detail page: [https://www.phoenixcontact.com/us/products/2890108](https://www.phoenixcontact.com/us/products/2890108)

### cUL Recognized
Approval ID: FILE E 60425

<table>
<thead>
<tr>
<th>Use group</th>
<th>Nominal voltage $U_N$</th>
<th>Nominal current $I_N$</th>
<th>Cross section AWG</th>
<th>Cross section mm$^2$</th>
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<tbody>
<tr>
<td>Use group B</td>
<td>300 V</td>
<td>8 A</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Use group D</td>
<td>300 V</td>
<td>8 A</td>
<td>-</td>
<td>-</td>
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### UL Recognized
Approval ID: FILE E 60425

<table>
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<tr>
<th>Use group</th>
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<tr>
<td>Use group B</td>
<td>300 V</td>
<td>8 A</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Use group D</td>
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<td>8 A</td>
<td>-</td>
<td>-</td>
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### cULus Recognized
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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Classifications

<table>
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<th>Classification</th>
<th>Code</th>
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<td>ECLASS-11.0</td>
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<td>ECLASS-13.0</td>
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<td>ETIM</td>
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<td>ETIM 9.0</td>
<td>EC001031</td>
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<td>UNSPSC</td>
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<td>UNSPSC 21.0</td>
<td>31261500</td>
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Environmental product compliance

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<th>China RoHS</th>
<th>Environmentally friendly use period: unlimited = EFUP-e</th>
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<tr>
<td></td>
<td>No hazardous substances above threshold values</td>
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</table>
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Mandatory accessories

ME 22,5 OT-MSTBO KMGY - Upper part of housing

2907761
https://www.phoenixcontact.com/us/products/2907761

DIN rail housing, Upper housing part for connectors with header, width: 22.6 mm, height: 99 mm, depth: 45.85 mm, color: light grey (7035)

ME 22,5 OT-FKDSO KMGY - Upper part of housing

2200323

DIN rail housing, Upper housing part for PCB terminal blocks with Push-in spring connection, width: 22.6 mm, height: 99 mm, depth: 45.85 mm, color: light grey (7035)
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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ME 22,5 OT-MKDSO KMGY - Upper part of housing

2908469
https://www.phoenixcontact.com/us/products/2908469

DIN rail housing, Upper housing part for PCB terminal blocks with screw connection, width: 22.6 mm, height: 99 mm, depth: 45.85 mm, color: light grey (7035)

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ME 22,5 OTU-MKDSO KMGY - Upper part of housing

2278953

DIN rail housing, Upper housing part for PCB terminal blocks with screw connection, width: 22.6 mm, height: 99 mm, depth: 45.85 mm, color: light grey (7035)
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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ME 22,5 OT-1MSTBO KMGY - Upper part of housing

2914877

DIN rail housing, Upper housing part for connectors with header, width: 22.6 mm, height: 99 mm, depth: 45.85 mm, color: light grey (7035)

ME 22,5 OT-3MSTBO KMGY - Upper part of housing

2914880
https://www.phoenixcontact.com/us/products/2914880

DIN rail housing, Upper housing part for connectors with header, width: 22.6 mm, height: 102 mm, depth: 60.15 mm, color: light grey (7035)
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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ME 22,5 OTP-MSTBO PS KMGY - Upper part of housing

2279282

DIN rail housing, Upper housing part for connectors with header, width: 22.6 mm, height: 99 mm, depth: 45.85 mm, color: light grey (7035)

ME 22,5 OT-MKDSO SET KMGY - Upper part of housing

2853734

DIN rail housing, Set comprised of upper housing part and 4 PCB terminal blocks (4-pos.) with screw connection, width: 22.6 mm, height: 99 mm, depth: 45.85 mm, color: light grey (7035)
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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ME 22,5 OT-MSTBO KMGY VPE200 - Upper part of housing

2896801


DIN rail housing, Upper housing part for connectors with header, width: 22.6 mm, height: 99 mm, depth: 45.85 mm, color: light grey (7035)

ME 22,5 OT-MSTBO SET KMGY - Upper part of housing

2709244


DIN rail housing, Set comprised of upper housing part, 4 PCB headers (4-pos.), and 4 PCB terminal blocks with screw connection (4-pos.), width: 22.6 mm, height: 99 mm, depth: 45.85 mm, color: light grey (7035)

Accessories
ME LPZS - PCB stop

2906911


DIN rail housing, after approx. 4 cm, the ME LPZS PCB pull-out stop prevents the PCB from being removed completely and locks the PCB in place.

ME-SAS - Shield connection clamp

2853899


Shield connection clamp for terminal points starting from 2.5 mm²
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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ME LP - PCB

2906908

PCB, for custom fitting, with contact to DIN rail (EN 60715)

MCVR 1,5/10-ST-3,81 KMGY AU - PCB connector

1936186

PCB connector, nominal cross section: 1.5 mm², color: light grey, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Gold, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MCVR 1,5/...-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 90 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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ME B-KA KMGY - Cover

2706302

Terminal cover, 1 strip covers up to 12 terminal points, for ME-BUS terminal opening, (male side)

ME B-SA/NS 35 KMGY - Cover

2706700

Terminal cover, 1 strip covers up to 12 terminal points, for ME-BUS male side, (female side)
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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ME DH 27 NS 35 KMGY - Spacer

2706289

Spacer, for protecting the input and output contacts for NS 35 DIN rails

ME DH 36 NS 35 KMGY - Spacer

2706292

Spacers, for protection of the input or output contacts for DIN rail NS 35, width [B] 36 mm
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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IMC 1,5/2-ST-3,81 GY7035 - Printed-circuit board connector

1708376

PCB connector, nominal cross section: 1.5 mm², color: light grey, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Pin, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: IMC 1,5/-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

MC 1,5/10-ST-3,81 BK - PCB connector

1839733

PCB connector, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MC 1,5/-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, pin layout: Linear three-way pinning, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard
ME 22.5 UT/FE BUS/10+2 KMGY - Mounting base housing

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MC 1,5/10-ST-3,81 BK AU - PCB connector

1771978

PCB connector, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Gold, contact connection type: Socket, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: MC 1.5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, pin layout: Linear three-way pinning, plug-in system: COMBICON MC 1.5, locking: without, mounting: without, type of packaging: packed in cardboard

IMC 1,5/10-ST-3,81 BK AU - Printed-circuit board connector

1770746

PCB connector, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Gold, contact connection type: Pin, number of potentials: 10, number of rows: 1, number of positions: 10, number of connections: 10, product range: IMC 1.5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, pin layout: Linear three-way pinning, plug-in system: COMBICON MC 1.5, locking: without, mounting: without, type of packaging: packed in cardboard
MC 1,5/ 2-ST-3,81 BK - PCB connector
1827635
https://www.phoenixcontact.com/us/products/1827635

PCB connector, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 2, number of rows: 1, number of positions: 2, number of connections: 2, product range: MC 1,5/..-ST, pitch: 3.81 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, conductor/PCB connection direction: 0 °, pin layout: Linear three-way pinning, plug-in system: COMBICON MC 1,5, locking: without, mounting: without, type of packaging: packed in cardboard

ME MF 17,5 - Base latch
2908281

Metal foot catch with spring, for intermediate elements.
ME 22,5 UT/FE BUS/10+2 KMGY - Mounting base housing

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EML (44X64)R-ME - Label for ME ... UT ... BUS ... housing

0828266

Label for ME ... UT ... BUS ... housing, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: adhesive, lettering field size: 44 x 64 mm, Number of individual labels: 200

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