Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

DIN rail housing, Lower housing part with metal foot catch, width: 25 mm, height: 77.5 mm, depth: 85.8 mm, color: light grey (7035), cross connection: DIN rail connector (optional), number of positions cross connector: 8

Your advantages

- Flexible use, thanks to the modular system and unique modularity in the connection technology
- Standardized connections such as RJ45, USB, D-SUB and antenna sockets as components that can be integrated
- Optimal space utilization, as well as adaptability of design, colors, and printing
- Eight-position DIN rail connectors with parallel and up to two serial contacts for easy module-to-module communication

Commercial data

<table>
<thead>
<tr>
<th>Item number</th>
<th>2203876</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing unit</td>
<td>1 pc</td>
</tr>
<tr>
<td>Minimum order quantity</td>
<td>10 pc</td>
</tr>
<tr>
<td>Sales key</td>
<td>AC09</td>
</tr>
<tr>
<td>Product key</td>
<td>ACHAEB</td>
</tr>
<tr>
<td>GTIN</td>
<td>4055626465517</td>
</tr>
<tr>
<td>Weight per piece (including packing)</td>
<td>31.36 g</td>
</tr>
<tr>
<td>Weight per piece (excluding packing)</td>
<td>30.49 g</td>
</tr>
<tr>
<td>Customs tariff number</td>
<td>85389099</td>
</tr>
<tr>
<td>Country of origin</td>
<td>DE</td>
</tr>
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</table>
# Technical data

## Notes

<table>
<thead>
<tr>
<th>General</th>
<th>Refer to the data sheet for the range in the download area.</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Material of contact pads for bus connector, galvanic gold (hard gold)</td>
</tr>
</tbody>
</table>

## Product properties

<table>
<thead>
<tr>
<th>Product type</th>
<th>Enclosure bottom part</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product family</td>
<td>ICS25</td>
</tr>
<tr>
<td>Max. number of positions</td>
<td>24 (pitch: 5 mm)</td>
</tr>
<tr>
<td></td>
<td>30 (pitch: 3.5 mm)</td>
</tr>
<tr>
<td>Number of rows</td>
<td>3</td>
</tr>
<tr>
<td>Type</td>
<td>Lower housing part with metal foot catch</td>
</tr>
<tr>
<td>Housing type</td>
<td>DIN rail housing</td>
</tr>
<tr>
<td>Ventilation openings present</td>
<td>no</td>
</tr>
<tr>
<td>Housing series</td>
<td>ICS</td>
</tr>
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## Dimensions

<table>
<thead>
<tr>
<th>Dimensional drawing</th>
<th><img src="image" alt="Dimensional drawing" /></th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>25 mm</td>
</tr>
<tr>
<td>Height</td>
<td>77.5 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>85.8 mm</td>
</tr>
<tr>
<td>Depth from top edge of DIN rail to support point on upper part</td>
<td>75.6 mm</td>
</tr>
<tr>
<td>Dimensions</td>
<td>25 mm x 77.5 mm x 87.5 mm (Lower housing part from the top edge of the DIN rail with upper housing part)</td>
</tr>
<tr>
<td></td>
<td>25 mm x 77.5 mm x 94 mm (Lower housing part with upper housing part)</td>
</tr>
</tbody>
</table>

## 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

<table>
<thead>
<tr>
<th>Power dissipation single housing for 20 °C</th>
<th></th>
</tr>
</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>15 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power dissipation single housing for 30 °C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>30 °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>12 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power dissipation single housing for 40 °C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>40 °C</td>
</tr>
<tr>
<td>Reduction factor</td>
<td>0.67</td>
</tr>
<tr>
<td>Mounting position</td>
<td>vertical</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>10 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power dissipation single housing for 50 °C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>50 °C</td>
</tr>
<tr>
<td>Reduction factor</td>
<td>0.53</td>
</tr>
<tr>
<td>Mounting position</td>
<td>vertical</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>8 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power dissipation single housing for 60 °C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>60 °C</td>
</tr>
<tr>
<td>Reduction factor</td>
<td>0.41</td>
</tr>
<tr>
<td>Mounting position</td>
<td>vertical</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>6.1 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power dissipation single housing for 70 °C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>70 °C</td>
</tr>
<tr>
<td>Reduction factor</td>
<td>0.31</td>
</tr>
<tr>
<td>Mounting position</td>
<td>vertical</td>
</tr>
<tr>
<td>Power dissipation</td>
<td>4.6 W</td>
</tr>
</tbody>
</table>

Vibration test

<table>
<thead>
<tr>
<th>Specification</th>
<th>IEC 60068-2-6:2007-12</th>
</tr>
</thead>
<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

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>850 °C</td>
</tr>
<tr>
<td>Time of exposure</td>
<td>30 s</td>
</tr>
</tbody>
</table>

Thermal stability / ball thrust test

<table>
<thead>
<tr>
<th>Specification</th>
<th>IEC 60695-10-2:2014-02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>125 °C</td>
</tr>
<tr>
<td>Test duration</td>
<td>1 h</td>
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<tr>
<td>Force</td>
<td>20 N</td>
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</tbody>
</table>

Mechanical strength / tumbling barrel

<table>
<thead>
<tr>
<th>Specification</th>
<th>IEC 60068-2-31:2008-05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height of fall</td>
<td>50 cm</td>
</tr>
<tr>
<td>Frequency</td>
<td>50</td>
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</table>

Shocks

<table>
<thead>
<tr>
<th>Specification</th>
<th>IEC 60068-2-27:2008-02</th>
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<tbody>
<tr>
<td>Pulse shape</td>
<td>Semi-sinusoidal</td>
</tr>
<tr>
<td>Acceleration</td>
<td>15g</td>
</tr>
<tr>
<td>Shock duration</td>
<td>11 ms</td>
</tr>
<tr>
<td>Number of shocks per direction</td>
<td>3</td>
</tr>
<tr>
<td>Test directions</td>
<td>X-, Y- and Z-axis (pos. and neg.)</td>
</tr>
</tbody>
</table>

Test for substances that would hinder coating with paint or varnish

<table>
<thead>
<tr>
<th>Specification</th>
<th>VDMA 24364:2018-05</th>
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</thead>
<tbody>
<tr>
<td>Result</td>
<td>Test passed</td>
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</tbody>
</table>

Degree of protection (IP code)

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Result, degree of protection, IP code</td>
<td>IP20</td>
</tr>
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</table>

Ambient conditions

<table>
<thead>
<tr>
<th>Max. IP code to attain</th>
<th>IP20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature (operation)</td>
<td>-40 °C ... 105 °C (depending on power dissipation)</td>
</tr>
<tr>
<td>Ambient temperature (storage/transport)</td>
<td>-40 °C ... 55 °C</td>
</tr>
<tr>
<td>Ambient temperature (assembly)</td>
<td>-5 °C ... 100 °C</td>
</tr>
<tr>
<td>Relative humidity (storage/transport)</td>
<td>max. 80 %</td>
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</table>

PCB data

<table>
<thead>
<tr>
<th>Number of PCB holders</th>
<th>2</th>
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<tbody>
<tr>
<td>Type of PCB mount</td>
<td>Latching</td>
</tr>
<tr>
<td>Thickness of the PCB</td>
<td>1.4 mm ... 1.8 mm</td>
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</tbody>
</table>

Mounting

| Mounting type | DIN rail mounting |
### Mounting position

| Mounting position       | Vertical (horizontal DIN rail) |

### Packaging specifications

<table>
<thead>
<tr>
<th>Type of packaging</th>
<th>packed in cardboard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer packaging type</td>
<td>Carton</td>
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Drawings

Power dissipation diagram for 0 K ... 100 K

1. Heat concentrated on PCB inside a housing
2. Heat distributed to PCB inside a housing
3. Heat concentrated on PCB without housing (ideal)
4. Heat distributed to PCB without housing (ideal)

Power dissipation diagram for 0 K ... 30 K

1. Heat concentrated on PCB inside a housing
2. Heat distributed to PCB inside a housing
3. Heat concentrated on PCB without housing (ideal)
4. Heat distributed to PCB without housing (ideal)
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.
ICS25-B77X75-O-7035 - Mounting base housing

2203876


Classifications

<table>
<thead>
<tr>
<th>ECLASS</th>
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<tbody>
<tr>
<td>ECLASS-11.0</td>
<td>27182702</td>
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<tr>
<td>ECLASS-13.0</td>
<td>27190601</td>
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<table>
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<tbody>
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<td>EC002779</td>
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<table>
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<tr>
<th>UNSPSC</th>
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<td>UNSPSC 21.0</td>
<td>31261500</td>
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</table>
Environmental product compliance

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

ICS-FE-CONTACT - Functional ground contact

2203904

Functional ground contact, for ICS series electronics housings

---

ICS25-B77X75-O-7035 - Mounting base housing

2203876

---

ICC25-H/4L5,0-7035 - PCB header

2203902
https://www.phoenixcontact.com/us/products/2203902

PCB headers, nominal cross section: 2.5 mm², color: light grey, nominal current: 16 A, rated voltage (III/2): 320 V, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: ICC25-H/..L5,0, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: without, type of packaging: Box packaging, Product with pin output on left side
ICS25-B77X75-O-7035 - Mounting base housing


ICC25-H/4R5,0-7035 - PCB header

2203903


PCB headers, nominal cross section: 2.5 mm², color: light grey, nominal current: 16 A, rated voltage (III/2): 320 V, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: ICC..-H/..R5,0, pitch: 5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: without, type of packaging: Box packaging, Product with pin output on right side

ICC25-H/5L3,5-7035 - PCB header

1084018


PCB headers, color: light grey, nominal current: 8 A, rated voltage (III/2): 150 V, contact surface: Tin, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: ICC..-H/..L3,5, pitch: 3.5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 2.8 mm, number of solder pins per potential: 1, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: without, type of packaging: Box packaging, Product with pin output on left side
ICS25-B77X75-O-7035 - Mounting base housing

ICS25-H/5R3,5-7035 - PCB header

PCB headers, color: light grey, nominal current: 8 A, rated voltage (III/2): 150 V, contact surface: Tin, contact connection type: Pin, number of potentials: 5, number of rows: 1, number of positions: 5, number of connections: 5, product range: ICC.-H/..R3,5, pitch: 3.5 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 2.8 mm, number of solder pins per potential: 1, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: without, type of packaging: Box packaging, Product with pin output on right side

ICS25-F22A6-7035 - Connection plate

DIN rail housing, ICS filler, with antenna function cutout, width: 25 mm, height: 7.25 mm, depth: 22.4 mm, color: light grey (7035)
ICS25-B77X75-O-7035 - Mounting base housing

ICS-F22A-7035 - Connection plate

ICS-F22J-7035 - Connection plate
ICS25-B77X75-O-7035 - Mounting base housing

DIN rail housing, ICS filler, closed, width: 25 mm, height: 7.25 mm, depth: 22.4 mm, color: light grey (7035)

ICS25-F22S-7035 - Connection plate

DIN rail housing, ICS filler, closed, width: 25 mm, height: 7.25 mm, depth: 22.4 mm, color: light grey (7035)

ICS25-F22U-7035 - Connection plate

DIN rail housing, ICS filler, with USB function cutout, width: 25 mm, height: 7.25 mm, depth: 22.4 mm, color: light grey (7035)
ICS25-B77X75-O-7035 - Mounting base housing

2203876

ICS25-F22V-7035 - Connection plate

1079495

DIN rail housing, ICS filler, with vents, width: 25 mm, height: 7.25 mm, depth: 22.4 mm, color: light grey (7035)

ICS25-F45D15-7035 - Connection plate

2203896

DIN rail housing, ICS filler, with D-SUB 15 function cutout, width: 25 mm, height: 7.25 mm, depth: 44.9 mm, color: light grey (7035)
ICS25-B77X75-O-7035 - Mounting base housing

2203876

ICS25-F45D9-7035 - Connection plate

1053054

DIN rail housing, ICS filler, with D-SUB 9 function cutout, width: 25 mm, height: 7.25 mm, depth: 44.9 mm, color: light grey (7035)

ICS25-F45S-7035 - Connection plate

2203891
https://www.phoenixcontact.com/us/products/2203891

DIN rail housing, ICS filler, closed, width: 25 mm, height: 7.25 mm, depth: 44.9 mm, color: light grey (7035)
ICS25-B77X75-O-7035 - Mounting base housing

ICS25-F45V-7035 - Connection plate

ICS25-F67S-7035 - Connection plate
ICS25-B77X75-O-7035 - Mounting base housing

ICS-F67V-7035 - Connection plate

ICS MOUNTING DEVICE - Assembly tool
TBUS8-25,0-PPPPPPP-7035 - DIN rail bus connectors
2202891

DIN rail connector, color: light grey, nominal current: 6 A (parallel contacts), rated voltage (III/2): 32 V, number of positions: 8, pitch: 2.54 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 8 parallel contacts

---

TBUS8-25,0-PPPPPPPS-7035 - DIN rail bus connectors
2202890

DIN rail connector, color: light grey, nominal current: 6 A, 4 A (parallel contacts) (Serial contacts), rated voltage (III/2): 32 V, number of positions: 8, pitch: 2.54 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 7 parallel contacts/1 serial contact
TBUS8-25,0-PPPPPSS-7035 - DIN rail bus connectors
2202895

DIN rail connector, color: light grey, nominal current: 6 A, 4 A (parallel contacts) (Serial contacts), rated voltage (III/2): 32 V, number of positions: 8, pitch: 2.54 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 6 parallel contacts/2 serial contacts

---

TBUS8-25,0-PPPPSSSS-7035 - DIN rail bus connectors
1156781

DIN rail connector, color: light grey, nominal current: 6 A, 4 A (parallel contacts) (Serial contacts), rated voltage (III/2): 32 V, number of positions: 8, pitch: 2.54 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 4 parallel contacts/4 serial contacts
ICS25-B77X75-O-7035 - Mounting base housing

ICS25-C77X12-7035 - Upper part of housing

ICS25-TL77X12-7035 - Upper part of housing
PSPT 2,5/ 4-ST KMGY - Printed-circuit board connector

PCB connector, nominal cross section: 2.5 mm², color: light grey, nominal current: 16 A, rated voltage (III/2): 300 V, contact surface: Tin, contact connection type: Socket, number of potentials: 4, number of rows: 1, number of positions: 4, product range: PSPT 2,5/-..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, locking: without, mounting: without, type of packaging: packed in cardboard, Color of the spring lever: orange

MSTBT 2,5 HC/ 4-STP GY7035 - Printed-circuit board connector

PCB connector, nominal cross section: 2.5 mm², color: light grey, nominal current: 16 A, rated voltage (III/2): 320 V, contact surface: Tin, contact connection type: Socket, number of rows: 1, number of positions: 4, product range: MSTBT 2,5 HC/-..-STP, pitch: 5 mm, connection method: Screw connection with tension sleeve, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: COMBI/CON MSTB 2,5 HC, locking: without, mounting: without