

# ICS20-F90V-9005 - Connection plate



1287437

<https://www.phoenixcontact.com/us/products/1287437>

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DIN rail housing, ICS filler, with vents, width: 20 mm, height: 7.25 mm, depth: 89.8 mm, color: black (similar RAL 9005)



## 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
- Customized processing for any customer-specific connection technology
- Easy and fast push-in mounting of assembled printed-circuit boards, thanks to stable guide rails

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1287437                        |
| Packing unit                         | 10 pc                          |
| Minimum order quantity               | 10 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AC09                           |
| Product key                          | ACHAEE                         |
| GTIN                                 | 4063151513672                  |
| Weight per piece (including packing) | 3.83 g                         |
| Weight per piece (excluding packing) | 3.65 g                         |
| Customs tariff number                | 84879090                       |
| Country of origin                    | PL                             |

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## Technical data

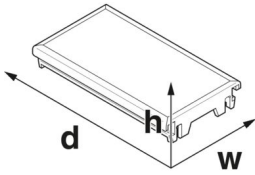
### Notes

|               |   |
|---------------|---|
| Assembly note | Please observe the application note in the download area. |
|---------------|---|

### Product properties

|                              |                  |
|------------------------------|------------------|
| Product type                 | Connection plate |
| Housing type                 | DIN rail housing |
| Housing series               | ICS              |
| Product family               | ICS20            |
| Ventilation openings present | yes              |

### Dimensions

|                     |   |
|---------------------|---|
| Dimensional drawing |  |
| Width               | 20 mm   |
| Height              | 7.25 mm   |
| Depth               | 89.8 mm   |

### PCB design

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

### Material specifications

|  |                  |
|--|------------------|
| Color (Housing)                        | black (RAL 9005) |
| Material Housing                       | PA               |
| Flammability rating according to UL 94 | V0               |
| CTI according to IEC 60112             | 600              |

### Environmental and real-life conditions

#### 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 |
|---------------|------------------------|

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|                  |        |
|------------------|--------|
| 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      | 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 | VDMA 24364:2018-05 |
| Result        | Test passed        |

## 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 | 2                 |
| Type of PCB mount     | Slot              |
| Thickness of the PCB  | 1.4 mm ... 1.8 mm |

## Mounting

|               |      |
|---------------|------|
| Mounting type | Slot |
|---------------|------|

## Packaging specifications

|                      |                |
|----------------------|----------------|
| Outer packaging type | Resealable bag |
|----------------------|----------------|

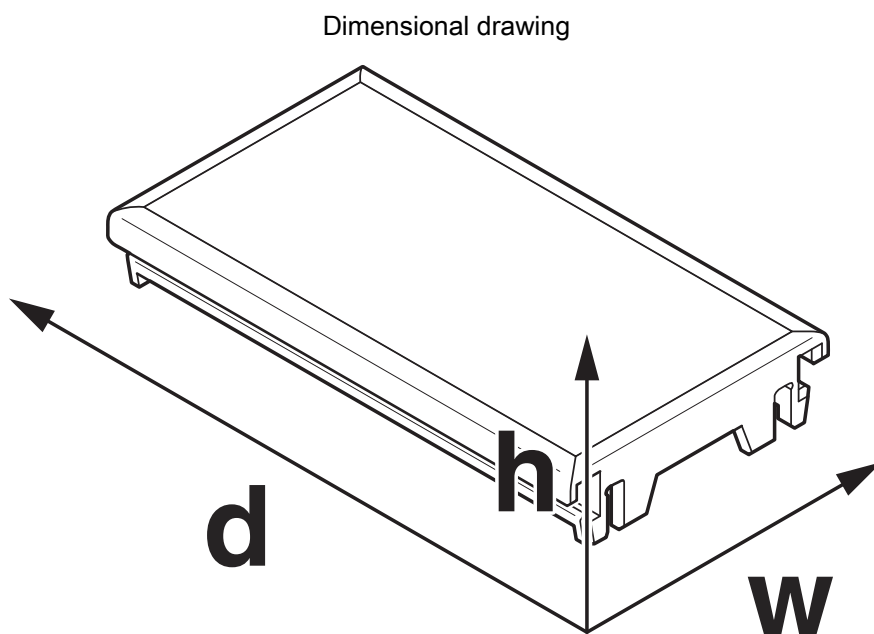
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## Drawings



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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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27190605 |
| ECLASS-15.0 | 27190605 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 0.05 kg CO2e |
|---------|--------------|

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)