



IKA industrial distribution board, UV-stable, IP65 + clamps

**Part no.** IKA-1/6-SR-UV  
**Catalog No.** 174213  
**Alternate Catalog No.** IKA-1/6-SR-UV  
**EL-Nummer (Norway)** 1702947

**Delivery program**

|  |                                      |                 |   |
|--|--------------------------------------|-----------------|---|
| Basic function                                   |                                      |                 | Basic device  |
| Product function                                 |                                      |                 | Installation distribution boards  |
| Product range                                    |                                      |                 | IKA industrial DBO  |
| Design   |                                      |                 | Surface mounted   |
| Installation site                                |                                      |                 | Indoor<br>Outdoor   |
| Type of installation                             |                                      |                 | Surface mounting  |
| Door/Flap  |                                      |                 | Gray  |
| Degree of Protection                             |                                      |                 | IP65  |
| Colour   |                                      |                 | Grey  |
| Module rack                                      |                                      |                 | Single-rail   |
| Shroud for protection against accidental contact |                                      |                 | Plastic   |
| Rows   | Count                                |                 | 1   |
| Module units per row                             |                                      |                 | 6   |
| Description                                      |                                      |                 | IP65<br>Protection Class II<br>Plastic enclosure gray (RAL 7035)  |
| Cable entries                                    |                                      |                 | Metric cable entries on top and bottom, back plate  |
| PE and N terminals design                        |                                      |                 | Screw terminals   |
| PE and N terminals                               | Number<br>x cross-<br>sectional area | mm <sup>2</sup> | PE: 2 x (2.5 - 6) + 2 x (4 - 10) + 1 x (16 - 35)<br>N: 2 x (2.5 - 6) + 2 x (4 - 10) + 1 x (16 - 35)   |
| Equipment supplied                               |                                      |                 | Basic device<br>Device support rails<br>Neutral-/protective conductor terminal<br>Locking screws can be sealed<br>Sealing caps<br>Current circuit designation |

**Technical data**

**General**

|   |                |      |                           |
|---|----------------|------|---------------------------|
| Standards   |                |      | EN 62208, IEC/EN 60670-24 |
| RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) |                |      | conform                   |
| Ambient temperature   |                | °C   | -25 - +40                 |
| Degree of Protection  |                |      | IP65                      |
| Protection class  |                |      | II (totally insulated)    |
| Rated operational voltage   | U <sub>e</sub> | V AC | 415                       |
| Rated frequency   | f              | Hz   | 50                        |
| Insulation voltage  |                |      |                           |
| AC  |                | V AC | 1000                      |
| DC  |                | V DC | 1500                      |

**Material characteristics**

|          |  |  |                 |
|----------|--|--|-----------------|
| Material |  |  | ABS (plastic)   |
| Colour   |  |  | Gray (RAL 7035) |

**Material properties**

|                   |  |  |      |
|-------------------|--|--|------|
| Mechanical        |  |  |      |
| Impact resistance |  |  | IK08 |

**Design verification as per IEC/EN 61439**

|  |  |  |  |
|--|--|--|--|
| Technical data for design verification |  |  |  |
|--|--|--|--|

|   |                |   |  |
|---|----------------|---|--|
| Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890 |                |   |  |
| Individual enclosure for wall mounting  | P <sub>V</sub> | W | 13   |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890 |                |   |  |
| Individual enclosure for wall mounting  | P <sub>V</sub> | W | 25   |
| IEC/EN 61439 design verification  |                |   |  |
| 10.2 Strength of materials and parts  |                |   |  |
| 10.2.2 Corrosion resistance   |                |   | Meets the product standard's requirements.   |
| 10.2.3.1 Verification of thermal stability of enclosures  |                |   | Meets the product standard's requirements.   |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat  |                |   | Meets the product standard's requirements.   |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects        |                |   | 850 °C; meets the product standard's requirements.   |
| 10.2.4 Resistance to ultra-violet (UV) radiation  |                |   | 1000 h of UV exposure as per ISO 4892-2; meets the product standard's requirements.  |
| 10.2.5 Lifting  |                |   | Does not apply to enclosures without lifting aids.   |
| 10.2.6 Mechanical impact  |                |   | IK08   |
| 10.2.7 Inscriptions   |                |   | Meets the product standard's requirements.   |
| 10.3 Degree of protection of ASSEMBLIES   |                |   | IP65   |
| 10.4 Clearances and creepage distances  |                |   | Is the panel builder's responsibility.   |
| 10.5 Protection against electric shock  |                |   | Protection class 2, therefore not applicable.  |
| 10.6 Incorporation of switching devices and components  |                |   | Is the panel builder's responsibility.   |
| 10.7 Internal electrical circuits and connections   |                |   | Is the panel builder's responsibility.   |
| 10.8 Connections for external conductors  |                |   | Is the panel builder's responsibility.   |
| 10.9 Insulation properties  |                |   |  |
| 10.9.2 Power-frequency electric strength  |                |   | U <sub>i</sub> = 1000 V AC   |
| 10.9.3 Impulse withstand voltage  |                |   | 3.3 kV   |
| 10.9.4 Testing of enclosures made of insulating material  |                |   | Meets the product standard's requirements.   |
| 10.10 Temperature rise  |                |   | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating  |                |   | Is the panel builder's responsibility.   |
| 10.12 Electromagnetic compatibility   |                |   | Is the panel builder's responsibility.   |
| 10.13 Mechanical function   |                |   | Meets the product standard's requirements.   |

## Technical data ETIM 7.0

|   |  |    |                           |
|---|--|----|---------------------------|
| Distribution boards (EG000023) / Small distribution board (EC000214)  |  |    |                           |
| Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Small distribution board (ecl@ss10.0.1-27-14-24-09 [ACN387011]) |  |    |                           |
| Mounting method   |  |    | Surface mounted (plaster) |
| Number of rows  |  |    | 1                         |
| Width in number of modular spacings   |  |    | 6                         |
| Type of cover   |  |    | Door                      |
| Cover model   |  |    | With notch                |
| Transparent cover/door  |  |    | No                        |
| Material housing  |  |    | Plastic                   |
| Height  |  | mm | 231                       |
| Width   |  | mm | 202                       |
| Depth   |  | mm | 110                       |
| Built-in depth  |  | mm | 70                        |
| Internal depth  |  | mm | 60                        |
| DIN-rail  |  |    | Yes                       |
| With mounting plate   |  |    | No                        |
| Extension possible  |  |    | Yes                       |
| EMC-version   |  |    | No                        |
| Colour  |  |    | Grey                      |
| RAL-number  |  |    | 7035                      |
| Degree of protection (IP)   |  |    | IP65                      |

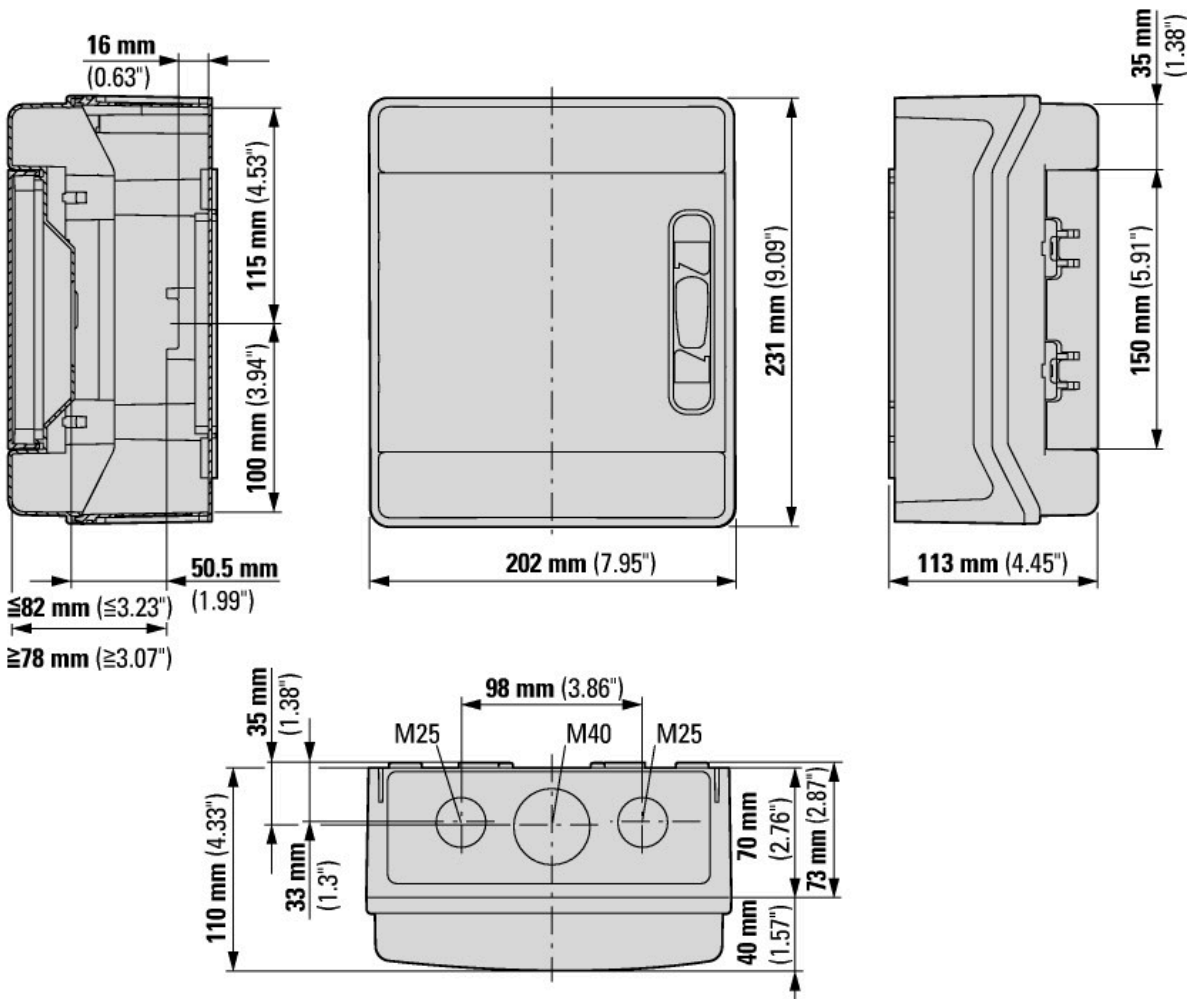
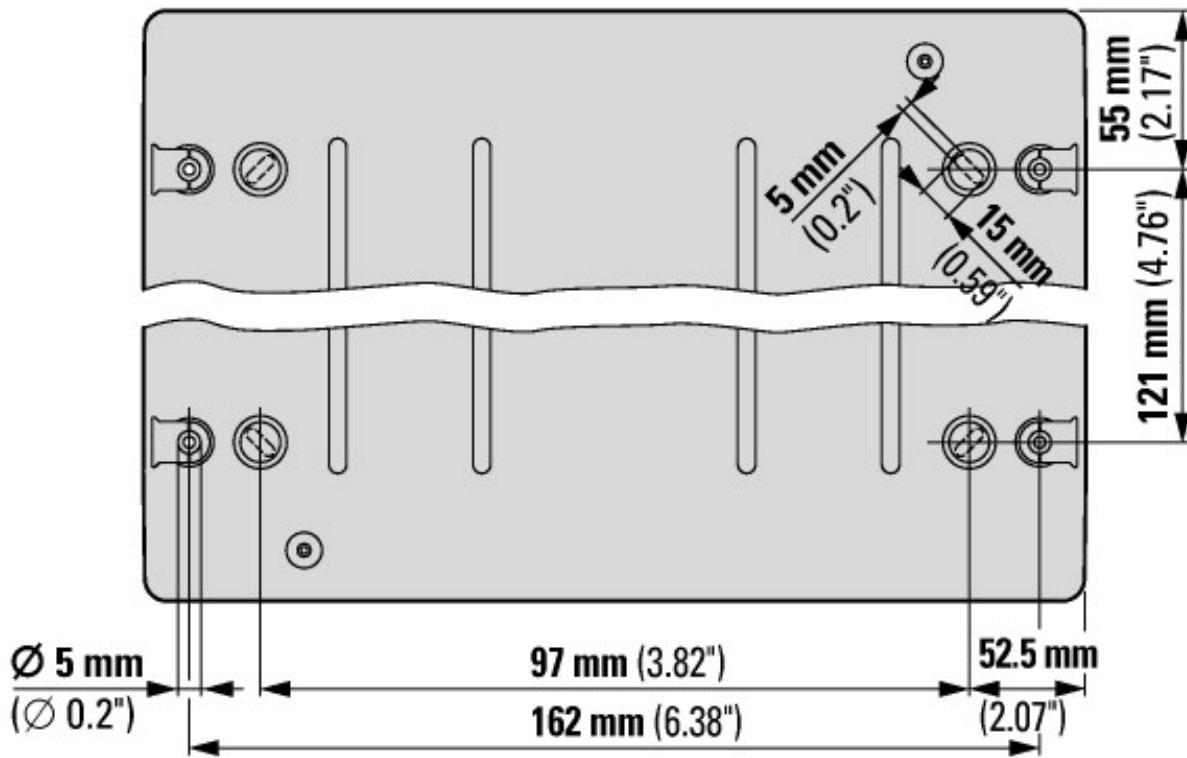
With lock

No

Type of closure

Other

## Dimensions



## Additional product information (links)

IL014003Z IKA compact distribution board

|  |   |
|--|---|
| IL014003Z IKA compact distribution board | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL014003ZU2015_03.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL014003ZU2015_03.pdf</a> |
| Product overview (Web)                   | <a href="http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm">http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm</a>   |