



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



**Part no.** IKA-3/54-SR-UV  
**Catalog No.** 174220  
**Alternate Catalog No.** IKA-3/54-SR-UV  
**EL-Nummer (Norway)** 1702954

**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                                      |                               |                 | Rail-frame   |
| Shroud for protection against accidental contact |                               |                 | Plastic  |
| Rows   | Count                         |                 | 3  |
| Module units per row                             |                               |                 | 18   |
| Description                                      |                               |                 | IP65<br>Protection Class II<br>Plastic enclosure gray (RAL 7035)   |
| Cable entries                                    |                               |                 | Metric cable entries on top and bottom, side, back plate   |
| PE and N terminals design                        |                               |                 | Screw terminals  |
| PE and N terminals                               | Number x cross-sectional area | mm <sup>2</sup> | PE: 16 x (2.5 - 6) + 16 x (4 - 10) + 1 x (10 - 25) + 1 x (16 - 35)<br>N: 16 x (2.5 - 6) + 16 x (4 - 10) + 1 x (10 - 25) + 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<br>Reserve section cover 6 space units |

**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   | Ue | V AC | 415                       |
| Rated frequency   | f  | Hz   | 50                        |

**Material characteristics**

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

**Material properties**

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

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

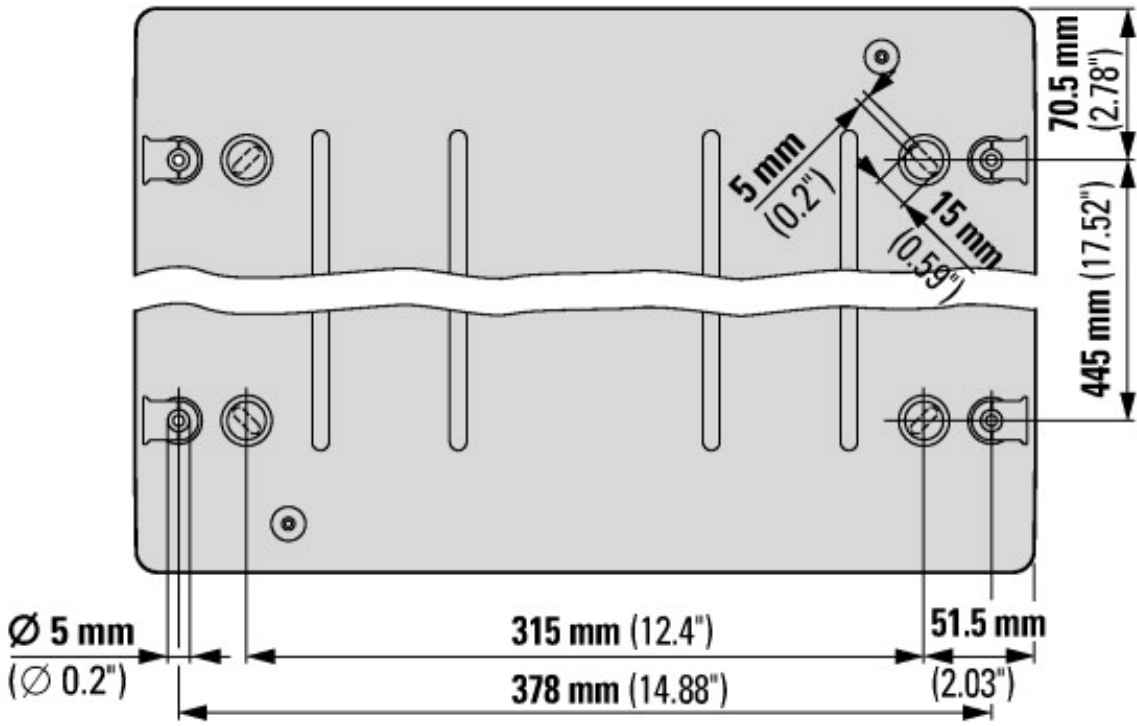
|   |  |  |  |
|---|--|--|--|
| Technical data for design verification  |  |  |  |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890 |  |  |  |

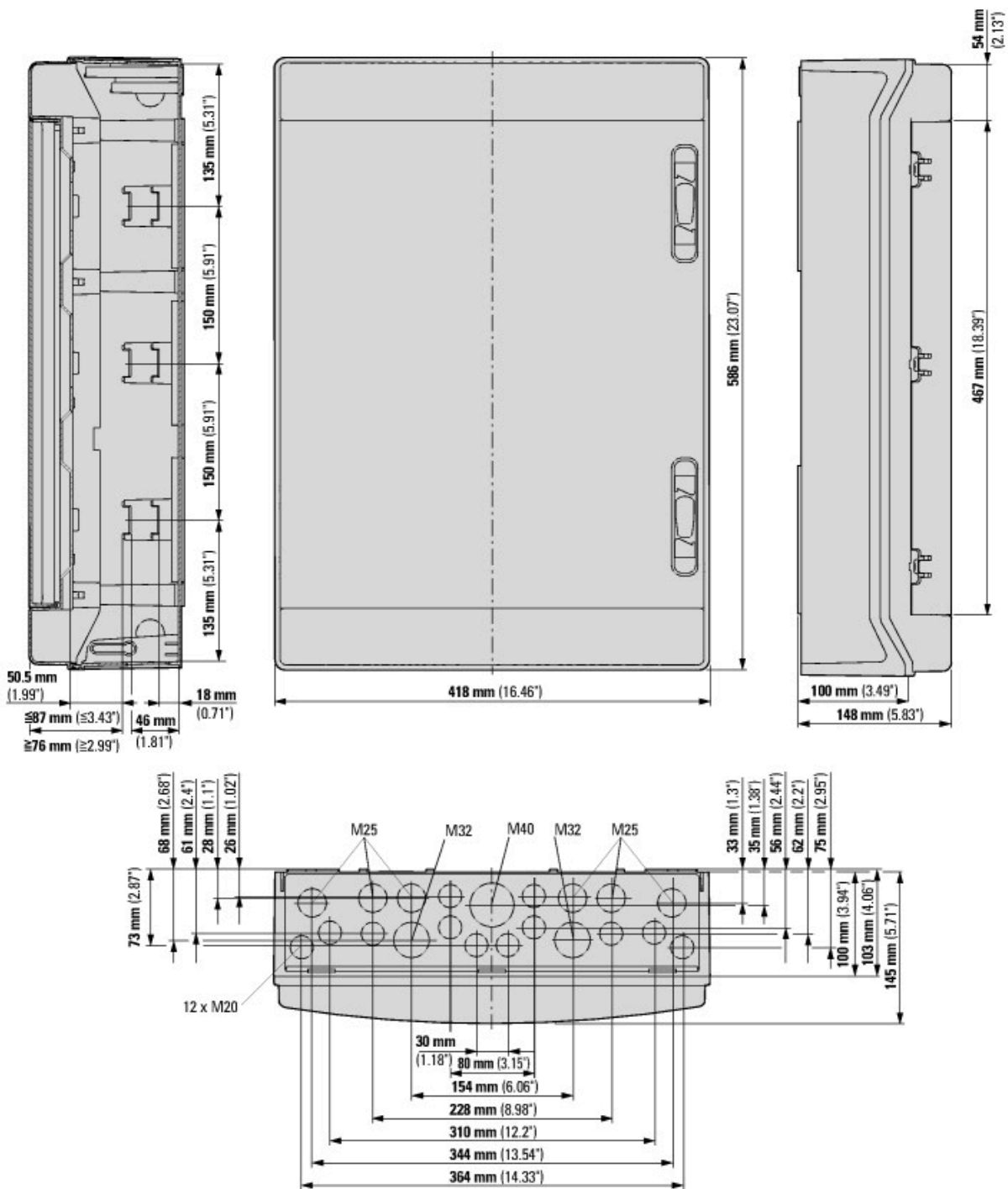
|   |                |   |  |
|---|----------------|---|--|
| Individual enclosure for wall mounting  | P <sub>V</sub> | W | 45   |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890 |                |   |  |
| Individual enclosure for wall mounting  | P <sub>V</sub> | W | 91   |
| 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 (ec1@ss10.0.1-27-14-24-09 [ACN387011]) |  |    |                           |
| Mounting method   |  |    | Surface mounted (plaster) |
| Number of rows  |  |    | 3                         |
| Width in number of modular spacings   |  |    | 18                        |
| Type of cover   |  |    | Door                      |
| Cover model   |  |    | With notch                |
| Transparent cover/door  |  |    | No                        |
| Material housing  |  |    | Plastic                   |
| Height  |  | mm | 586                       |
| Width   |  | mm | 418                       |
| Depth   |  | mm | 145                       |
| 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

[ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL014003ZU2015\\_03.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL014003ZU2015_03.pdf)

Product overview (Web)

<http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm>