

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

**Part no.** IKA-1/4-ST-UV  
**Catalog No.** 174187  
**Alternate Catalog No.** IKA-1/4-ST-UV  
**EL-Nummer (Norway)** 1702921

## 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                                        |                                      |                 | Transparent                                                                                                                                                   |
| Degree of Protection                             |                                      |                 | IP65                                                                                                                                                          |
| Colour                                           |                                      |                 | Grey                                                                                                                                                          |
| Module rack                                      |                                      |                 | Single-rail                                                                                                                                                   |
| Shroud for protection against accidental contact |                                      |                 | Plastic                                                                                                                                                       |
| Rows                                             | Count                                |                 | 1                                                                                                                                                             |
| Module units per row                             |                                      |                 | 4                                                                                                                                                             |
| 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 |  |  | 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 | 11                                                                                                                               |
| 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 | 22                                                                                                                               |
| 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 8.0

|                                                                                                                                                                                                                                     |  |    |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|---------------------------|
| 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                                                                                                                                                                                                                      |  |    | 1                         |
| Width in number of modular spacings                                                                                                                                                                                                 |  |    | 4                         |
| Type of cover                                                                                                                                                                                                                       |  |    | Door                      |
| Cover model                                                                                                                                                                                                                         |  |    | With notch                |
| Transparent cover/door                                                                                                                                                                                                              |  |    | Yes                       |
| Material housing                                                                                                                                                                                                                    |  |    | Plastic                   |
| Height                                                                                                                                                                                                                              |  | mm | 231                       |
| Width                                                                                                                                                                                                                               |  | mm | 166                       |
| Depth                                                                                                                                                                                                                               |  | mm | 110                       |
| Built-in depth                                                                                                                                                                                                                      |  | mm | 70                        |
| Built-in height                                                                                                                                                                                                                     |  | mm | 0                         |
| Built-in width                                                                                                                                                                                                                      |  | mm | 0                         |
| Internal depth                                                                                                                                                                                                                      |  | mm | 60                        |
| Earthing terminal block                                                                                                                                                                                                             |  |    | No                        |
| Neutral terminal block                                                                                                                                                                                                              |  |    | No                        |
| 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 |
| Signal passing door       |  |  | No    |