

# DATASHEET - ZG/I43E-G-150



**Meter enclosure, HxWxD=250x375x175mm, IP65**



**Part no.** ZG/I43E-G-150  
**Catalog No.** 013151

**EL-Nummer (Norway)** 0002502128

## Delivery program

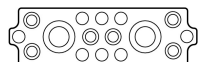
|                                      |  |    |                                                                                                        |
|--------------------------------------|--|----|--------------------------------------------------------------------------------------------------------|
| Product range                        |  |    | Ci insulated enclosures                                                                                |
| Basic function                       |  |    | Prepared enclosures                                                                                    |
| Product function                     |  |    | Meter enclosures                                                                                       |
| Accessories                          |  |    | Meter enclosures<br>Meter rail                                                                         |
| Single unit/Complete unit            |  |    | Complete housing                                                                                       |
| Degree of Protection                 |  |    | IP65                                                                                                   |
| Description                          |  |    | Metric cable entry knockouts in all sides<br>Fixing straps for wall fixing<br>Sealable cover fasteners |
| Information about equipment supplied |  |    | Meter rail to DIN 43853 including meter fixing screws and nuts                                         |
| Type cover                           |  |    | Transparent                                                                                            |
| Width                                |  | mm | 250                                                                                                    |
| Height                               |  | mm | 375                                                                                                    |
| Depth                                |  | mm | 175                                                                                                    |
| Mounting depth:                      |  | mm | 136                                                                                                    |

## Enclosure depth

|                        |  |    |                                                                      |
|------------------------|--|----|----------------------------------------------------------------------|
| Legend for the graphic |  |    | Dimensions from top:<br>Meter rail mounting depth<br>Enclosure depth |
| Enclosure depth        |  | mm |                                                                      |

## Notes

**C**

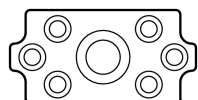


2 x M50/20

6 x M25/16

8 x M20

**D**



1 x M50/32

6 x M25/16

## 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, free-standing                                                                                           | P <sub>V</sub> | W | 22                                                                                                                                  |
| Starting enclosure, free-standing                                                                                             | P <sub>V</sub> | W | 21                                                                                                                                  |
| Middle enclosure, free-standing                                                                                               | P <sub>V</sub> | W | 19                                                                                                                                  |
| Individual enclosure for wall mounting                                                                                        | P <sub>V</sub> | W | 20                                                                                                                                  |
| Starting enclosure for wall mounting                                                                                          | P <sub>V</sub> | W | 19                                                                                                                                  |
| Middle enclosure for wall mounting                                                                                            | P <sub>V</sub> | W | 17                                                                                                                                  |
| 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, free-standing                                                                                           | P <sub>V</sub> | W | 45                                                                                                                                  |
| Starting enclosure, free-standing                                                                                             | P <sub>V</sub> | W | 42                                                                                                                                  |
| Middle enclosure, free-standing                                                                                               | P <sub>V</sub> | W | 39                                                                                                                                  |
| Individual enclosure for wall mounting                                                                                        | P <sub>V</sub> | W | 41                                                                                                                                  |
| Starting enclosure for wall mounting                                                                                          | P <sub>V</sub> | W | 38                                                                                                                                  |
| Middle enclosure for wall mounting                                                                                            | P <sub>V</sub> | W | 34                                                                                                                                  |
| 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        |                |   | Lower part: 960 °C / cover: 850 °C; meets the product standard's requirements.                                                      |
| 10.2.4 Resistance to ultra-violet (UV) radiation                                                                              |                |   | Not relevant to indoor installations.                                                                                               |
| 10.2.5 Lifting                                                                                                                |                |   | 10 kg per enclosure with support frame and lifting aid met; assembled and secured as per the latest applicable instruction leaflet. |
| 10.2.6 Mechanical impact                                                                                                      |                |   | IK10                                                                                                                                |
| 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                                                                                              |                |   | 8 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) / Empty cabinet (EC000058)                                                                                                                                                                                           |  |    |                           |
| Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Empty cabinet (small distribution board) (ecl@ss10.0.1-27-14-24-08 [ACN385011]) |  |    |                           |
| Mounting method                                                                                                                                                                                                                                     |  |    | Surface mounted (plaster) |
| Type of cover                                                                                                                                                                                                                                       |  |    | Optional                  |
| Cover model                                                                                                                                                                                                                                         |  |    | Closed                    |
| Type of door                                                                                                                                                                                                                                        |  |    | None                      |
| Transparent cover/door                                                                                                                                                                                                                              |  |    | Yes                       |
| With lock                                                                                                                                                                                                                                           |  |    | No                        |
| Nominal current (In)                                                                                                                                                                                                                                |  | A  | 1600                      |
| Height                                                                                                                                                                                                                                              |  | mm | 375                       |
| Width                                                                                                                                                                                                                                               |  | mm | 250                       |

|                                      |    |         |
|--------------------------------------|----|---------|
| Depth                                | mm | 175     |
| Built-in depth                       | mm | 150     |
| Internal depth                       | mm | 150     |
| Plate thickness cabinet              | mm | 6       |
| Plate thickness door/cover           | mm | 6       |
| Colour                               |    | Grey    |
| RAL-number                           |    | 7035    |
| Number of modules                    |    | 1       |
| Number of rows                       |    | 0       |
| Width in number of modular spacings  |    | 15      |
| Number of openings for flange plates |    | 4       |
| Extension possible                   |    | Yes     |
| Number of conduit inlets             |    | 76      |
| Material housing                     |    | Plastic |
| Surface protection                   |    | Other   |
| With mounting plate                  |    | Yes     |
| Suitable for outdoor use             |    | Yes     |
| Suitable for lightning protection    |    | Yes     |
| Degree of protection (IP)            |    | IP65    |
| Degree of protection (NEMA)          |    | Other   |
| Protection class                     |    | II      |
| Impact strength                      |    | IK10    |
| Circuit integrity                    |    | Other   |

## Dimensions

