



Wall enclosure with mounting plate, HxWxD=800x400x250mm

**Part no.** CS-84/250  
**Catalog No.** 111705  
**EL-Nummer (Norway)** 2466129

### Delivery program

|                                      |                  |    |   |
|--------------------------------------|------------------|----|---|
| Product range                        |                  |    | Wall-mounting housing CS  |
| Product function                     |                  |    | Wall-mounting housing with mounting plate   |
| Degree of Protection                 |                  |    | IP66<br>IP23 (with ventilating plates)  |
| Description                          |                  |    | Foamed polyurethane sealing throughout.<br>Impact resistance category IK09 to EN 62262.<br>Sheet steel mounting plate<br>Bottom plate with foamed gasket.<br>Single door, door stop on the right, door opening angle 120°<br>Door hinge pins with quick change technology.<br>Standardized locking system with sash fastener.<br>Powder coating RAL 7035 inside and outside |
| Material                             |                  |    | Steel plate   |
| <b>Dimensions</b>                    |                  |    |   |
| Width                                |                  | mm | 400   |
| Height                               |                  | mm | 800   |
| Depth                                |                  | mm | 250   |
| Locks                                | Number           |    | 2   |
| Hinges                               | Number           |    | 3   |
| Door profile molding                 | Number           |    | 2   |
| Flange plates                        | Width x Depth mm |    | 172 x 332   |
| Max. F3A flanges                     | Number           |    | 1   |
| <b>Mounting plates</b>               |                  |    |   |
| Height                               |                  | mm | 770   |
| Width                                |                  | mm | 350   |
| Weight                               |                  | kg | 23.2  |
| Information about equipment supplied |                  |    | Lock, 3 mm double ward key<br>Including M6 threaded welded studs for earth conductor connections in the door  |

### Technical data

#### General

|   |                |    |   |
|---|----------------|----|---|
| Standards   |                |    | IEC/EN 62208  |
| RoHS  |                |    | in accordance with Directive 2015/863/EU of the European Parliament and Council   |
| RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council) |                |    | yes   |
| Climatic proofing   |                |    | Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30  |
| Ambient temperature   |                | °C | -25 - +40   |
| Degree of Protection  |                |    | IP66<br>IP23 (with ventilating plates)  |
| Installation conditions   |                |    | Indoor installation   |
| Power loss  |                |    | Power loss P <sub>v</sub> [W] for fully enclosed sheet steel enclosure CS without internal partitions for wall mounting.<br>Example: max. ambient temperature 35°C; Overtemperature ΔT = 20 K; Relative humidity = 75%. |
| Max. heat dissipation   |                |    |   |
| Individual enclosure for wall mounting  | P <sub>v</sub> | W  | 57  |
| Starting enclosure for wall mounting  | P <sub>v</sub> | W  | 53  |
| Middle enclosure for wall mounting  | P <sub>v</sub> | W  | 48  |

## Material characteristics

|                    |  |    |  |
|--------------------|--|----|--|
| Material           |  |    | Steel plate  |
| Surface treatment  |  |    | Structured powder spray polyester based paint finish |
| Surface finish     |  |    | Semi-textured  |
| Colour             |  |    | light gray (RAL 7035)                                |
| Finish             |  |    | Gloss  |
| Material thickness |  | mm |  |
| Body               |  | mm | 1.5  |
| Mounting plate     |  | mm | 3  |
| Door               |  | mm | 1.5  |
| Bottom plate       |  | mm | 2  |

## Material properties

|                                      |  |    |   |
|--------------------------------------|--|----|---|
| Mechanical                           |  |    |   |
| Impact resistance                    |  |    | IK09 according to EN 62262  |
| max. assembly weights                |  |    |   |
| Total of Weight of fitted components |  | kg | 325   |
| Mounting plate                       |  | kg | 300   |
| Door                                 |  | kg | 25  |
|                                      |  |    | 500 kg payload, when brackets fitted in all four enclosure corners (vertically or horizontally) and the weights are symmetrically distributed within the enclosure. |

## Description/standard features

|                                      |        |  |  |
|--------------------------------------|--------|--|--|
| Construction                         |        |  | Canted and seam welded, including two M6 threaded bolts for earth conductor connections inside the enclosure.  |
| Back plate                           |        |  | 9 mm drilling dimensions for wall mounting   |
| Side plates                          |        |  | Without apertures  |
| Top plate                            |        |  | Without apertures  |
| Bottom plate                         |        |  | Enclosed, foamed gasket, can be unscrewed for F3A-... flanges or for assembly by user  |
| Mounting plate, material             |        |  | Sheet steel, hot-galvanized  |
| Door, Engineering                    |        |  | Including M6 threaded welded studs for earth conductor connections in the door:  |
| Information about equipment supplied |        |  | Lock, 3 mm double ward key<br>Including M6 threaded welded studs for earth conductor connections in the door<br><br><b>If electrical apparatus is to be installed in the door, a continuous, permanent protective ground contactor connection must be established with a protective ground cable. The threaded welded studs on the door and on the cabinet side wall must be used as connecting points for the ground leads.</b> |
| Door hinges                          |        |  | On the right, can be converted by user   |
| Type Door                            |        |  | closed   |
| door opening angle                   |        |  | 120°   |
| Door interlock                       |        |  | Standard closure 3 mm double-ward key  |
| Locks                                | Number |  | 2  |

## 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 | 57   |
| Starting enclosure for wall mounting  | P <sub>V</sub> | W | 53   |
| Middle enclosure for wall mounting  | P <sub>V</sub> | W | 48   |
| 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 | 109  |
| Starting enclosure for wall mounting  | P <sub>V</sub> | W | 101  |
| Middle enclosure for wall mounting  | P <sub>V</sub> | W | 92   |
| 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 |  | Meets the product standard's requirements.   |
| 10.2.4 Resistance to ultra-violet (UV) radiation   |  | Meets the product standard's requirements.   |
| 10.2.5 Lifting   |  | Does not apply to enclosures without lifting aids.   |
| 10.2.6 Mechanical impact   |  | IK09   |
| 10.2.7 Inscriptions  |  | Meets the product standard's requirements.   |
| 10.3 Degree of protection of ASSEMBLIES  |  | IP66   |
| 10.4 Clearances and creepage distances   |  | Is the panel builder's responsibility.   |
| 10.5 Protection against electric shock   |  | < 0.1 Ω; meets the product standard's requirements.  |
| 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   |  | Does not apply to basic enclosures as defined in EN 62208.   |
| 10.9.4 Testing of enclosures made of insulating material   |  | Does not apply to metal enclosures.  |
| 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

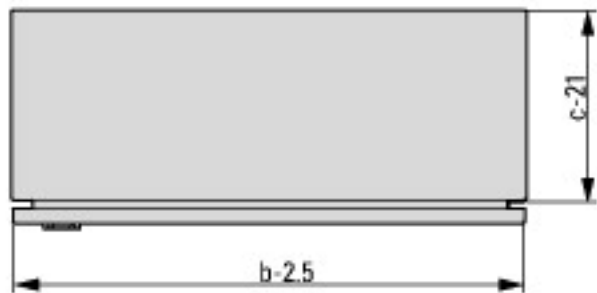
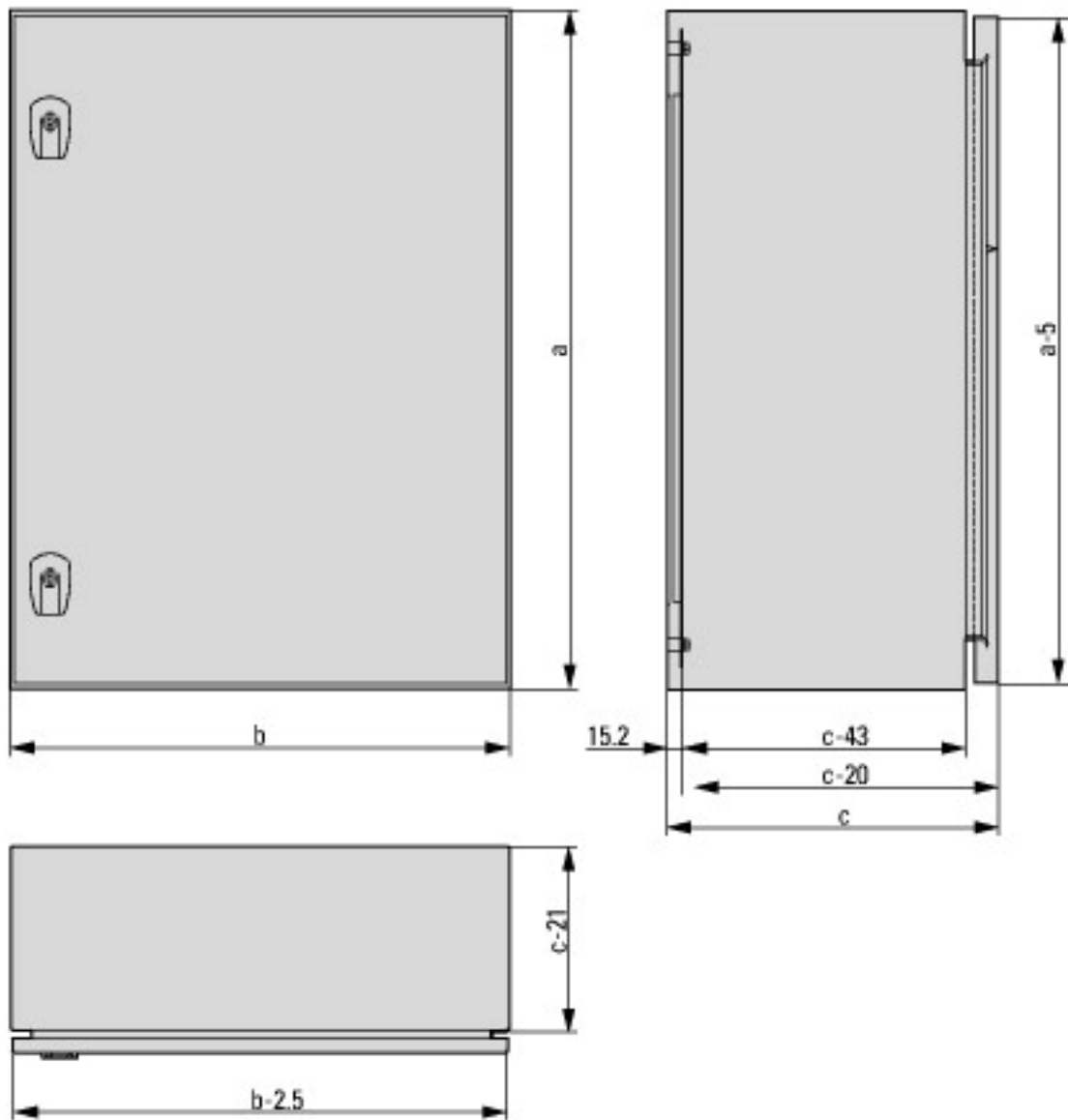
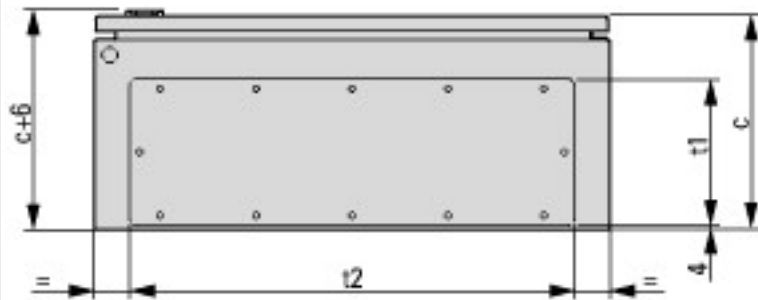
|  |    |                |
|--|----|----------------|
| Cabinet enclosures (EG000011) / Enclosure/cabinet (empty) (EC000261)   |    |                |
| Electric engineering, automation, process control engineering / Electrical cabinet, housing, rack / Electrical cabinet (empty) / Electrical cabinet (ecl@ss10.0.1-27-18-01-01 [AGZ056016]) |    |                |
| Width  | mm | 400            |
| Height   | mm | 800            |
| Depth  | mm | 250            |
| Material   |    | Steel          |
| Material quality   |    | Other          |
| Surface finishing  |    | Powder coating |
| Colour   |    | Grey           |
| RAL-number   |    | 7035           |
| Detached   |    | No             |
| Floor standing wall model  |    | Yes            |
| Suitable for wall mounting   |    | Yes            |
| Corner model   |    | No             |
| Intermediate mounting  |    | Yes            |
| Connectable  |    | No             |
| With mounting plate  |    | Yes            |
| Mounting plate depth-adjustable  |    | No             |
| Suitable for wall built-in   |    | Yes            |
| Pole fastening   |    | Yes            |
| Number of doors  |    | 1              |
| Number of locks  |    | 2              |
| Suitable for metrical mounting   |    | Yes            |
| Suitable for outdoor set-up  |    | No             |
| Pitched roof   |    | No             |
| EMC-version  |    | No             |
| With glazed door   |    | No             |
| With ventilation door  |    | No             |
| With backside door   |    | No             |
| Impact strength  |    | IK09           |
| Degree of protection (IP)  |    | IP66           |
| Degree of protection (NEMA)  |    | 12             |
| Thermal dissipation (Delta T = 20 K) according to IEC/TR 60890   | W  | 57             |

|  |   |      |
|--|---|------|
| Max. permissible load of the enclosure according to IEC 62208      | N | 3250 |
| Max. permissible load of the door(s) according to IEC 62208        | N | 250  |
| Max. permissible load of the mounting plate according to IEC 62208 | N | 3000 |

## Approvals

|                                      |  |  |   |
|--------------------------------------|--|--|---|
| Product Standards                    |  |  | UL 508A; CSA-C22.2 No.14; IEC/EN 62208; CE marking  |
| UL File No.                          |  |  | E336299   |
| UL Category Control No.              |  |  | NITW  |
| CSA File No.                         |  |  | –   |
| CSA Class No.                        |  |  | –   |
| North America Certification          |  |  | Request filed for CSA   |
| Conditions of Acceptability          |  |  | Series CS may be provided with metal sub-panel. No back mounted components are allowed between sub-panel and the back sheet metal enclosure |
| Specially designed for North America |  |  | No  |
| Suitable for                         |  |  | Industrial Control Panels   |
| Degree of Protection                 |  |  | IEC: IP66, indoor; UL/CSA Types 1, 12, indoor only.   |

## Dimensions



$a = 800$  mm

$b = 400$  mm

$c = 250$  mm

$t_1 = 172$  mm