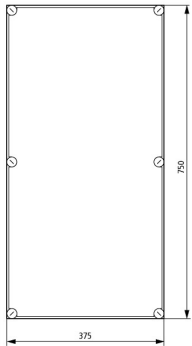
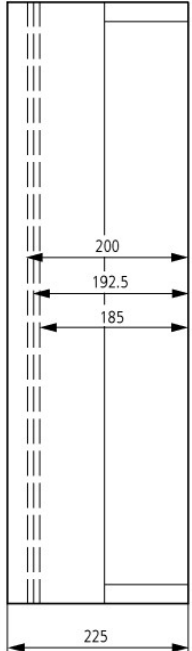


Insulated enclosure, top+bottom open, HxWxD=750x375x225mm

Part no. C148-200
Catalog No. 078896

EL-Nummer (Norway) 4132017

Delivery program

| | | |
|--|----|--|
| Dimensions | mm |  |
| Product range | | Ci insulated enclosures |
| Basic function | | Basic enclosures |
| Product function | | Distribution board enclosure without cable gland plates |
| Single unit/Complete unit | | Single unit |
| Degree of Protection | | IP65 |
| Description | | Sealable cover fasteners Sides closed, but with full area knockout Open top and bottom |
| Type cover | | Transparent |
| Width | mm | 375 |
| Height | mm | 750 |
| Depth | mm | 225 |
| Mounting depth with mounting plate | mm | 200 |
| Mounting depth for mounting rail 7.5 mm height | mm | 192.5 |
| Mounting depth for mounting rail 15 mm height | mm | 185 |
| Enclosure depth | | |
| Legend for the graphic | | Dimensions from top: Mounting depth with mounting plate Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 15 mm height Enclosure depth |
| Enclosure depth | mm |  |

Notes

Distribution board with/without gland plates fitted

- Cover transparent, cover fasteners can be sealed

Ci distribution board enclosure without cable gland plates

- Degree of protection IP65
- Sides closed, but with full area knockout, open top and bottom

KST distribution board enclosure with cable gland plates fitted

- Degree of protection IP65 from below
- Sides closed, but with full area knockout, open at top
- Fitting of cable supports in the distribution board with wedge-lock fastener
- Gland plate can be split, cables can be inserted from the front

Technical data

General

| | | | |
|---|--|----|---|
| Standards | | | IEC/EN 60529 EN 50262 DIN 43656 DIN 43660 EN 60439-4 for CI...X individual enclosures with combined distribution boards from Ci enclosures up to 680 A. Can thus be used for socket combinations and as component for construction site distribution boards. |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | °C | -40 - +80 |
| Ambient temperature | | | |
| Mean value over 24 hours | | °C | 35 |
| Limit values | | °C | |
| Ambient temperature limit value min. | | °C | -5 |
| Ambient air temperature, limit values max. | | °C | 40 |
| Degree of Protection | | | IP65 |
| Protection type | | | IP65 (Enclosure) IP65 (KST cable entries from below) IP64 (KST cable entries from above) IP00 (Cable entry open) |
| Power loss | | | |
| Max. radiated heat dissipation with separate mounting, ambient air temperature +20 °C | | W | 138 |
| Max. radiated heat dissipation in distribution board combination to VDE 0660 Part 500 | | W | 93 |
| Notes | | | When calculating the heat dissipation, the quadratic relationship of current with the rated diversity factor a must be considered. $P_v = I_2 \times R$ $P_v' = P_v \times a^2$ If no data is available concerning the load relationships of the individual circuits, the rated diversity factor is selected conform to VDE 0660 Part 500. |
| additional technical data for UL-/CSA- approved devices | | | see UL-report File No. E54120 |
| Components | | | Switchgear assembly components are type-tested. They are available individually for the self-assembly of switchgear installations, distribution boards and control panels. |
| Devices that can be fitted | | | The reference values indicated in the table apply to the basic elements of the distribution board. As far as devices, terminals etc. fitted into the enclosures are concerned, their own specific technical data and rated values apply. |
| Standards | | | |
| TTA - Type Tested Assemblies | | | IEC/EN 60439-1, VDE 0660 Part 500 |
| Low-voltage fuses | | | IEC/EN 60269, VDE 0636 |
| Type test | | | VDE 0660 Part 500, IEC/EN 60439-1 |
| Creepage and clearance distances | | | III/3 to IEC/EN 60439-1 |
| Flammability characteristics - Glow rod test | | | VDE 0304 Part 3 level IIb, level IIb to IEC 60707 |
| Regulation for the fire resistance tests of electrical products, their modules and components, glow wire test | | | VDE 0471 Part 2 |
| Operating and ambient conditions to VDE 0660 Part 500 | | | |
| Ambient temperature | | | |
| Mean value over 24 hours | | °C | 35 |
| Limit values | | °C | -5 ... 40 |
| Indoor installation | | | |

| | | | |
|-------------------|--|----|---|
| Relative humidity | | | 90 % (at 20°C) 50% (at 40°C) |
| Altitude | | m | Max. 2000 |
| Protection type | | | IP65 (Enclosure) IP65 (KST cable entries from below) IP64 (KST cable entries from above) IP00 (Cable entry open) |
| Mounting grid | | mm | 25 (DIN 43660) |
| Colour | | | |
| Base | | | RAL 7032, pebble grey |
| Housing body | | | Transparent, colourless or RAL 7032, pebble grey |
| | | | Cl...-NA: Transparent cover, opaque |
| Surface finish | | | Galvanized Passivated |

Material characteristics

| | | | |
|----------------|--|--|---|
| Material | | | glass-fibre reinforced polycarbonate (base) non-reinforced polycarbonate (cover) Halogen free |
| Surface finish | | | Galvanized Passivated |
| Colour | | | RAL 7032, pebble grey (base) transparent, opaque (cover) |
| Colour | | | |
| Base | | | RAL 7032, pebble grey |
| Housing body | | | Transparent, colourless or RAL 7032, pebble grey |

Material properties

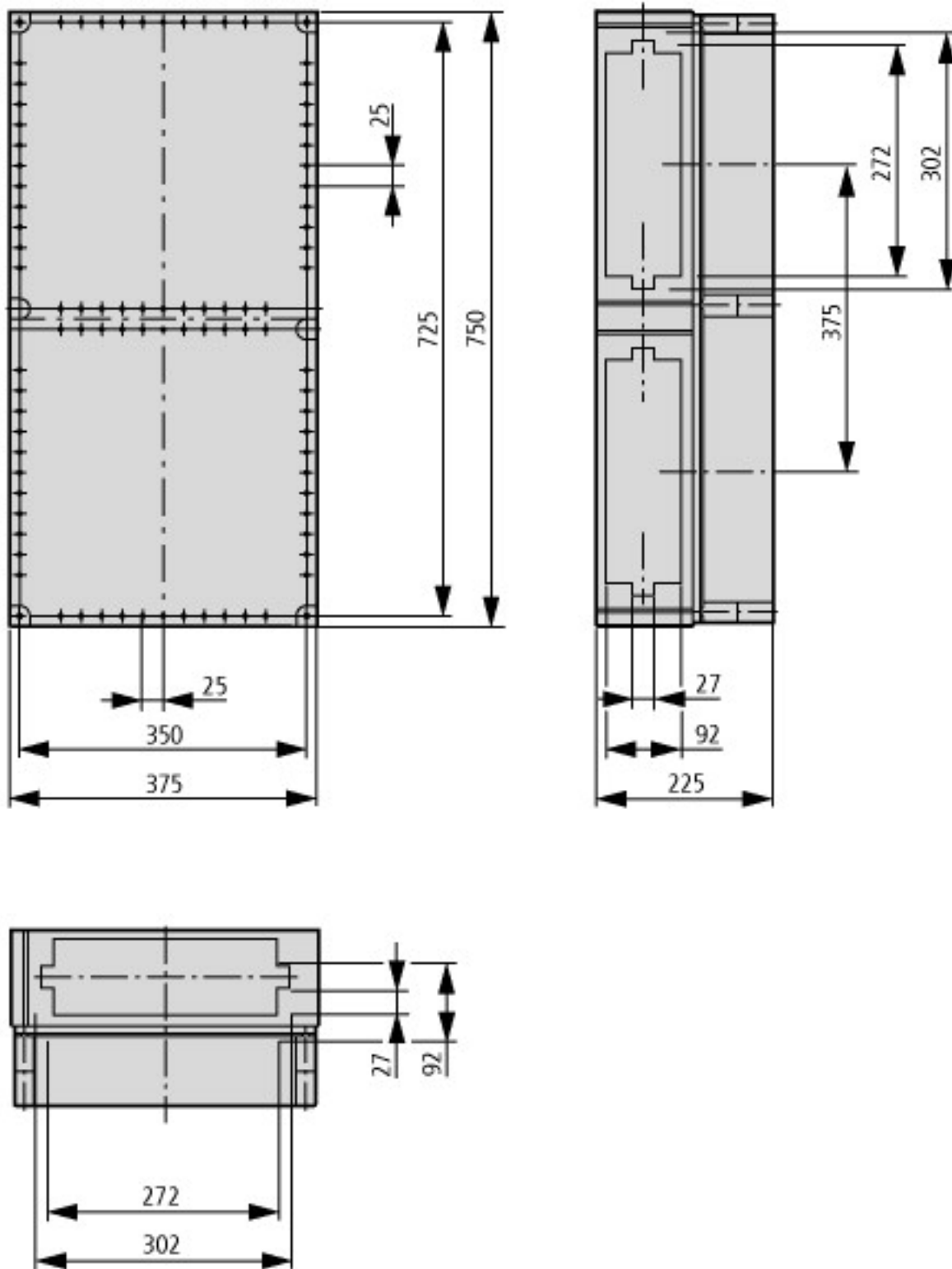
| | | | |
|---|--|-------------------------|---|
| Electrical | | | |
| Track resistance | | | KB160, KC175 (base, to IEC 60112) KB100, KC200 (cover, to IEC 60112) |
| Surface resistance to IEC 60093 | | $\Omega \times 10^{13}$ | 1 |
| Dielectric strength to IEC 60243-1 | | kV/mm | 30 |
| Thermal | | | |
| Temperature resistant | | | -40 °C - 120 °C (enclosure) 85 °C (enclosure bolt) 80 °C (gasket) |
| Mechanical | | | |
| Impact resistance | | | IK10 according to EN 50102 |
| Loading capacity | | kg/m ² | 40 |
| Chemical resistance | | | |
| Chemical resistant | | | Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 % Not resistant to: alkalis, benzene |
| Atmospheric | | | |
| Saline spray | | | IEC 60068-2-11 |
| UV resistance | | | Beneath protective shield |
| Water consumption to DIN EN ISO 62 | | % | 0.29 |
| Flammability characteristics | | | |
| Flammability classification according to UL94 | | | V1 (base) V2 (cover) |

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, calculated as per IEC 60890 | | | |
| Individual enclosure for wall mounting | P _V | CO | 47 |
| Starting enclosure for wall mounting | P _V | CO | 44 |
| Middle enclosure for wall mounting | P _V | CO | 40 |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890 | | | |
| Individual enclosure for wall mounting | P _V | CO | 95 |
| Starting enclosure for wall mounting | P _V | CO | 88 |

| Middle enclosure for wall mounting | P _v | CO | 81 |
|--|----------------|----|---|
| 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 | | | 40 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 _i = 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. |

Dimensions



Additional product information (links)

Manufacturer's Declaration CI-RoHS

ftp://ftp.moeller.net/DOCUMENTATION/PDF/2013-01-31_Ci_RoHS.pdf

Declaration of conformity

ftp://ftp.moeller.net/DOCUMENTATION/PDF/ci_ce.pdf