

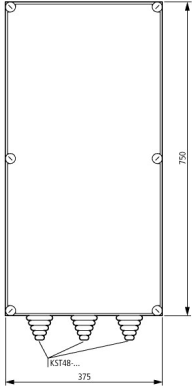


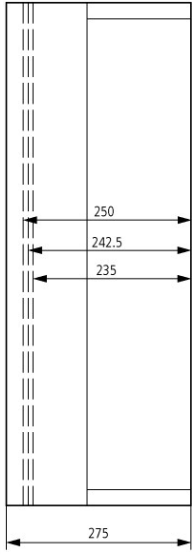
**Panel enclosure, with gland plate and cable glands,
HxWxD=750x375x275mm**

**Part no. KST48-250
Catalog No. 010450**

**EL-Nummer 2502101
(Norway)**

Delivery program

| | | | |
|--|--|----|--|
| Product range | | | xEnergy Safety Ci |
| Basic function | | | Basic enclosures |
| Product function | | | Panel enclosure with gland plates fitted |
| Single unit/Complete unit | | | Stand-alone device |
| Standards | | | EN 62208 EN 61439-2 |
| Degree of Protection | | | IP65 |
| Description | | | Sealable cover fasteners Sides closed, but with full area knockout Open 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 |
| Colour | | | RAL 7035, light gray (base) Transparent, smoky gray (cover) |
| Width | | mm | 375 |
| Height | | mm | 750 |
| Depth | | mm | 275 |
| Mounting depth with mounting plate | | mm | 250 |
| Mounting depth for mounting rail 7.5 mm height | | mm | 242.5 |
| Mounting depth for mounting rail 15 mm height | | mm | 235 |
| Dimensions | | mm |  |
| 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 |  |
| Cable entry | | 3 x 14 - 68 |

Technical data

General

| | | | |
|---|--|----|--|
| Standards | | | EN 62208 EN 61439-2 |
| 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) |
| 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) |
| Surface finish | | | Galvanized Passivated |

Material characteristics

| | | | |
|----------------|--|--|--------------------------|
| Surface finish | | | Galvanized Passivated |
|----------------|--|--|--------------------------|

Design verification as per IEC/EN 61439

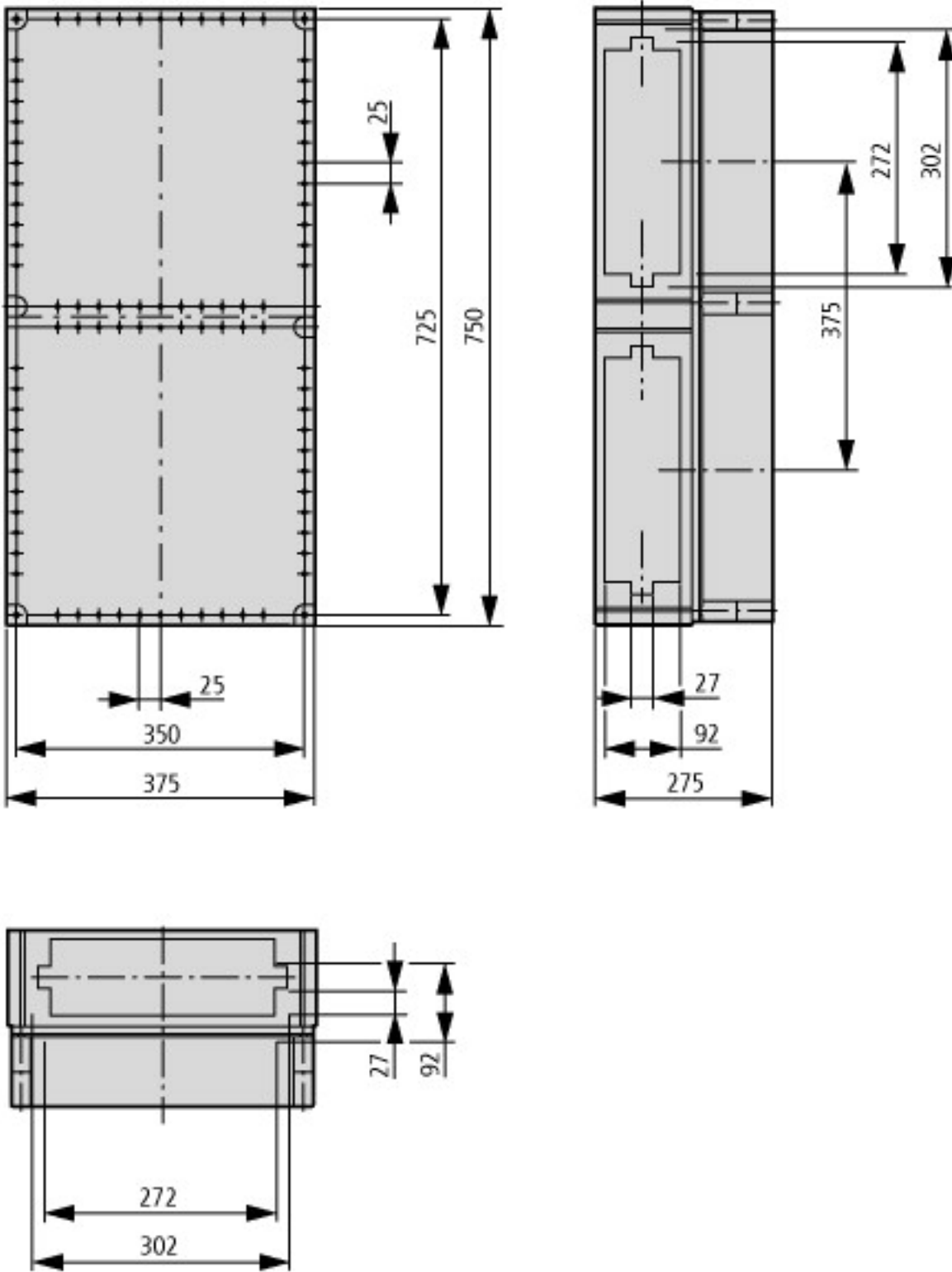
| | | | |
|---|----------------|---|---|
| Technical data for design verification | | | |
| Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890 | | | |
| Individual enclosure for wall mounting | P _V | W | 52 |
| Starting enclosure for wall mounting | P _V | W | 48 |
| Middle enclosure for wall mounting | P _V | W | 44 |
| 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 _V | W | 105 |
| Starting enclosure for wall mounting | P _V | W | 96 |
| Middle enclosure for wall mounting | P _V | W | 88 |
| 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. |

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 | | | Cover |
| Cover model | | | Closed |
| Type of door | | | None |
| Transparent cover/door | | | Yes |
| With lock | | | No |
| Nominal current (In) | | A | 1600 |
| Height | | mm | 750 |
| Width | | mm | 375 |
| Depth | | mm | 275 |

| | | |
|--------------------------------------|----|---------|
| Built-in depth | mm | 250 |
| Internal depth | mm | 250 |
| 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 | | 17 |
| Number of openings for flange plates | | 6 |
| Extension possible | | Yes |
| Number of conduit inlets | | 0 |
| Material housing | | Plastic |
| Surface protection | | Other |
| With mounting plate | | No |
| 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



Additional product information (links)

[allowInterrupt=1&RevisionSelectionMethod=LatestReleased&noSaveAs=0&Render](http://www.eaton.eu/DE/ecm/idcplg?IdcService=GET_FILE&model%20certification%20xEnergy%20Safety%20Ci) [http://www.eaton.eu/DE/ecm/idcplg?IdcService=GET_FILE&model certification xEnergy Safety Ci](http://www.eaton.eu/DE/ecm/idcplg?IdcService=GET_FILE&model%20certification%20xEnergy%20Safety%20Ci)

[allowInterrupt=1&RevisionSelectionMethod=LatestReleased&noSaveAs=0&Render](http://www.eaton.eu/DE/ecm/idcplg?IdcService=GET_FILE&Save%20time%20-%20we%20assist%20you%20with%20expert%20pre-assembly) [http://www.eaton.eu/DE/ecm/idcplg?IdcService=GET_FILE&Save time – we assist you with expert pre-assembly](http://www.eaton.eu/DE/ecm/idcplg?IdcService=GET_FILE&Save%20time%20-%20we%20assist%20you%20with%20expert%20pre-assembly)

[allowInterrupt=1&RevisionSelectionMethod=LatestReleased&noSaveAs=0&Render](http://www.eaton.eu/DE/ecm/idcplg?IdcService=GET_FILE&product%20information%20xEnergy%20Safety%20Ci) [http://www.eaton.eu/DE/ecm/idcplg?IdcService=GET_FILE&product information xEnergy Safety Ci](http://www.eaton.eu/DE/ecm/idcplg?IdcService=GET_FILE&product%20information%20xEnergy%20Safety%20Ci)

tool for calculating the power loss for switching device combinations

<http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/TCTool/index.htm>

configurator - xEnergy family

<http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/xEnergyMainSupport/index.htm>