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- German
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Worldwide English

CI45-200 - Insulated enclosure open above+below, HxWxD=500x375x225mm

001896 CI45-200

Overview Specifications Resources

001896 CI45-200

Insulated enclosure open above+below, HxWxD=500x375x225mm

EL-Nummer (Norway) 4132085

Distribution board basic enclosure, material characteristic polycarbonate, impact-resistant, degree of protection IP65, patented cover fasteners with integrated overpressure compensation, enclosure side plates closed, full-area knockout, open top and bottom, sealable cover fasteners, RAL 7035, grey (base), transparent smoky, (cover), mounting depth with mounting plate=200mm, cover type: transparent smoky, base type: top and bottom open

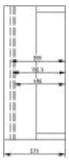
- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Dimensions

Delivery program

Dimensions

Product range
xEnergy Safety Ci
Basic function
Basic enclosures
Product function
Panel enclosures
Single unit/Complete unit
Single unit
Degree of Protection
IP65
Standards
EN 62208
EN 61439-2
Description
Housing prepared for distribution board
Two sides closed, can be folded out; two sides open
Sealable cover fasteners

Integrated pressure-relief mechanism for short-circuits
Type cover
Transparent
Width
375 mm
Height
500 mm
Depth
225 mm
Mounting depth with mounting plate
200 mm
Mounting depth for mounting rail 7.5 mm height
192.5 mm
Mounting depth for mounting rail 15 mm height
185 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



Technical data

General
Standards
EN 62208
EN 61439-2
Ambient temperature
-40 - +80 °C
Degree of Protection
IP65
Material characteristics
Material
glass-fibre reinforced polycarbonate (base)
non-reinforced polycarbonate (cover)
Halogen free
Surface treatment
Resistant to corrosion
Material properties
ElectricalTrack resistance
KB160, KC175 (base, to IEC 60112)
KB100, KC200 (cover, to IEC 60112)
ElectricalSurface resistance to IEC 60093
$1\ \Omega \times 10^{13}$
ThermalTemperature resistant
-40 °C - 120 °C (enclosure)
85 °C (enclosure bolt)
80 °C (gasket)
Chemical resistanceChemical resistant
Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions
Partly resistant to: Acids > 10 %
Not resistant to: alkalis, benzene
AtmosphericSaline spray
IEC 60068-2-11
AtmosphericUV resistance
Beneath protective shield
Flammability characteristicsFlammability classification according to UL94
V1 (base)
V2 (cover)

Design verification as per IEC/EN 61439

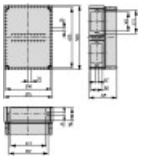
Technical data for design verification
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890Individual enclosure for wall mounting [P_V]
36 W
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890Starting enclosure for wall mounting [P_V]
33 W
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890Middle enclosure for wall mounting [P_V]
31 W
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890Individual enclosure for wall mounting [P_V]
72 W
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890Starting enclosure for wall mounting [P_V]
67 W
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890Middle enclosure for wall mounting [P_V]
62 W
IEC/EN 61439 design verification
10.2 Strength of materials and parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 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 Strength of materials and parts10.2.4 Resistance to ultra-violet (UV) radiation
Not relevant to indoor installations.
10.2 Strength of materials and parts10.2.5 Lifting
30 kg per enclosure with support frame and lifting aid met; assembled and secured as per the latest applicable instruction leaflet.
10.2 Strength of materials and parts10.2.6 Mechanical impact
IK10
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
U_i = 1000 V AC
10.9 Insulation properties10.9.3 Impulse withstand voltage
8 kV
10.9 Insulation properties10.9.4 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)
1600 A
Height
500 mm
Width
375 mm
Depth
225 mm
Built-in depth
200 mm
Internal depth
200 mm
Plate thickness cabinet
6 mm
Plate thickness door/cover
6 mm
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
104
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



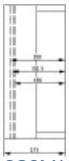
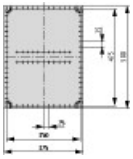
Additional product information

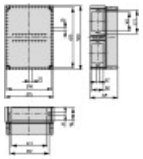
- model certification xEnergy Safety Ci
  (Web)
- Save time – we assist you with expert pre-assembly
  (Web)
- product information xEnergy Safety Ci
  (Web)
- tool for calculating the power loss for switching device combinations
  (Web)
- configurator - xEnergy family
  (Web)

Product photo

- 
  vt19813
  Photo
  INSULATED ENCLOSURE C445

Dimensions single product

- 
  320N133
  Line drawing
  Individual enclosure, panel enclosure
- 
  320N134
  Line drawing
  Mounting depth
- 
  320X029
  Line drawing
  Individual enclosure, panel enclosure
- 320X032
  Line drawing
  Panel enclosure
- 320X033
  Line drawing
  Panel enclosure

- 
  320X184
  Line drawing

Instruction Leaflet

- IL0567
  Asset
  (PDF, Language independent)

Declaration of Conformity

EU

- DA-DC-2013-01-31_CI_RoHS
  Asset
  (PDF)
- DA-DC-ci_ce
  Asset
  (PDF)

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