



Insulated enclosure, top+bottom open, HxWxD=421x421x175mm, NA type



Powering Business Worldwide™

Part no. C144-150-NA
Article no. 002246

Delivery program

| | | | |
|---------------------------|--|----|--|
| Product range | | | Insulated enclosures Ci for North America |
| Basic function | | | Basic enclosures |
| Product function | | | Distribution board enclosures for North America Panel enclosures with cover and flanges |
| Single unit/Complete unit | | | Single unit |
| Degree of Protection | | | IP65 |
| Description | | | Fitted with removable smooth flanges on all 4 sides Fixing straps for wall fixing Sealable cover fasteners |
| Type cover | | | Transparent |
| Surface finish | | | RAL 7032 (base) |
| Dimensions | | | |
| Width | | mm | 421 |
| Height | | mm | 421 |
| Depth | | mm | 175 |
| Mounting depth: | | mm | 150 |
| Model base | | | Enclosure side plates with flanges |
| Model base | | | Enclosure side plates with removable smooth flanges |

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 |
| Degree of Protection | | | IP65 |
| Operating and ambient conditions to VDE 0660 Part 500 | | | |
| Colour | | | |
| Base | | | RAL 7032, pebble grey |
| Housing body | | | Transparent, colorless |
| Surface finish | | | RAL 7032 (base) |

Material characteristics

| | | | |
|----------------|--|--|------------------------|
| Surface finish | | | RAL 7032 (base) |
| Colour | | | |
| Base | | | RAL 7032, pebble grey |
| Housing body | | | Transparent, colorless |

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 |
| Mechanical | | | |
| Impact resistance | | | please require |
| Atmospheric | | | |
| Saline spray | | | IEC 60068-2-11 |
| UV resistance | | | Beneath protective shield |

| | | |
|------------------------------------|---|------|
| Water consumption to DIN EN ISO 62 | % | 0.29 |
|------------------------------------|---|------|

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 | 27 |
| Starting enclosure for wall mounting | P _V | CO | 26 |
| Middle enclosure for wall mounting | P _V | CO | 24 |
| 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 | 54 |
| Starting enclosure for wall mounting | P _V | CO | 51 |
| Middle enclosure for wall mounting | P _V | CO | 48 |
| 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 | | | 20 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. |

Approvals

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| Product Standards | | UL 508A; CSA-C22.2 No.94; IEC/EN60529; CE marking |
| UL File No. | | E54120, E337418 |
| UL Category Control No. | | NITW |
| CSA File No. | | 27130 |
| CSA Class No. | | 3211-07 |
| North America Certification | | UL listed, CSA certified |
| Specially designed for North America | | Yes |
| Suitable for | | Industrial Control Panels |
| Current Limiting Circuit-Breaker | | No |
| Degree of Protection | | IEC: IP65; UL/CSA Types 1, 12, 13, 4X, indoor only |

Additional product information (links)

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| 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 |

