

Housing, insulated material, for molded-case circuit-breaker NZM1 size,  
HxWxD=250x187.5x175mm

Part no. **MCCB1-63/I23E-150**  
Catalog No. **138538**

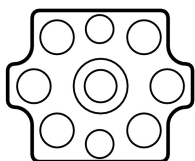
EL-Nummer **2502394**  
(Norway)

## Delivery program

Dimensions		mm	
Product range			xEnergy Safety Ci
Basic function			Prepared enclosures
Product function			Enclosures for circuit-breakers, switch-disconnectors
Single unit/Complete unit			Complete housing
Standards			EN 62208 EN 61439-2
Description			<p>For use as individual enclosures (order insulated additional terminal for 4th or 5th pole separately) or in distribution boards</p> <p>Observe the technical data of other equipment when connecting distribution boards</p> <p>Metric cable entry knockouts in all sides</p> <p>Side walls can be knocked out or fitted next to other devices</p> <p>Mounting plate pre-drilled for switches and pre-drilled for a PE and N terminal</p> <p>Mounting plate made from galvanized sheet steel</p> <p>Sealable cover fasteners</p>
Type cover			transparent, smoke gray, pre-drilled for door coupling rotary handle
Degree of Protection			IP65
Information about equipment supplied			<p>With door coupling rotary handle <b>NZM....XTVD</b> and extension shaft</p> <p>Fixing material for fixing material</p> <p>Including fixing straps for wall mounting</p> <p>can not be combined with remote operator NZM...-XR, plug-in unit NZM...-XSV or withdrawable unit NZM...-XAV</p>
Rated operational voltage	$U_e$	V AC	690
Width		mm	187.5
Height		mm	250
Depth		mm	248.5
Rated uninterrupted current	$I_u$	A	63
<b>For use with</b>			
Basic device			NZM1(-4) N1(-4) PN1(-4) NS1 LZM1(-4) LN1(-4)
Terminals			K95/1N...
Basic enclosure			C123E-150

### Notes

**A**

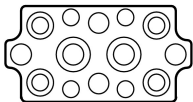


1 x M32/20

6 x M20

2 x M16

**B**



2 x M32/20

4 x M25/16

4 x M20

4 x M16

## Design verification as per IEC/EN 61439

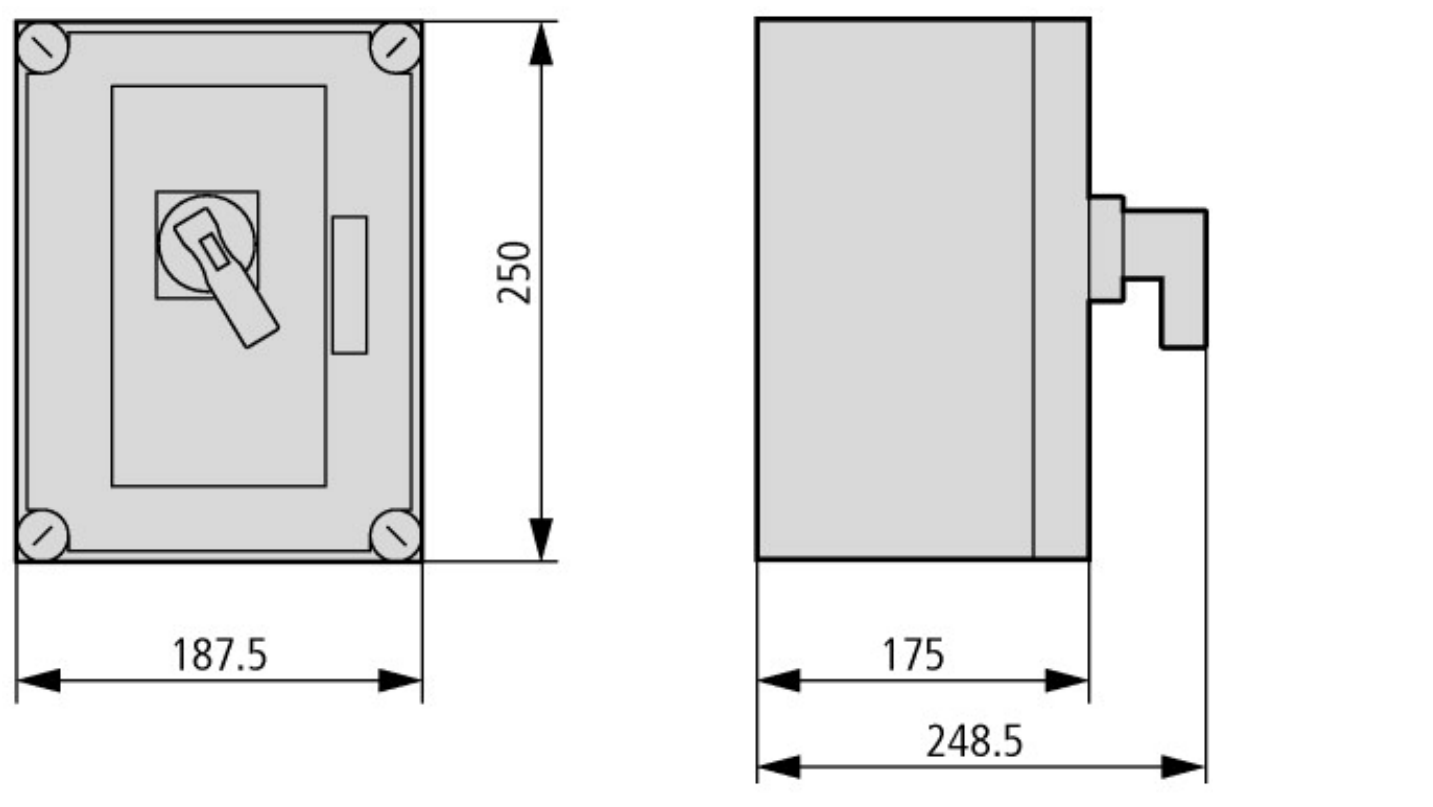
Technical data for design verification			
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure for wall mounting	P <sub>V</sub>	W	16
Starting enclosure for wall mounting	P <sub>V</sub>	W	15
Middle enclosure for wall mounting	P <sub>V</sub>	W	13
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	33
Starting enclosure for wall mounting	P <sub>V</sub>	W	30
Middle enclosure for wall mounting	P <sub>V</sub>	W	27
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			5 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 <sub>i</sub> = 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

Low-voltage industrial components (EG000017) / Empty enclosure for switchgear (EC000712)			
Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Empty housing for switch devices (ec1@ss10.0.1-27-37-13-01 [AKN343014])			
Material housing			Plastic
Width		mm	187.5
Height		mm	250
Depth		mm	248.5
With transparent cover			Yes

Suitable for emergency stop		Yes
Model		Surface mounting
Degree of protection (IP)		IP65
Degree of protection (NEMA)		Other

### Dimensions



### Additional product information (links)

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tool for calculating the power loss for switching device combinations	<a href="http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/TCool/index.htm">http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/TCool/index.htm</a>
configurator - xEnergy family	<a href="http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/xEnergyMainSupport/index.htm">http://www.eaton.eu/DE/Europe/Electrical/CustomerSupport/ConfigurationTools/xEnergyMainSupport/index.htm</a>