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Worldwide English



Powering Business Worldwide

AE/I43E/T - MCB enclosure, +door, 3x9space units, HxWxD=375x250x150mm



002612 AE/I43E/T

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002612 AE/I43E/T

MCB enclosure, +door, 3x9space units, HxWxD=375x250x150mm

EL-Nummer (Norway)

2502091

MCB individual enclosure with door, material characteristic polycarbonate, impact-resistant, degree of protection IP65, metric cable entry knockouts in all sides, for mounting devices with frame size 1 to DIN 43880, transparent smoky cover with quick-release fasteners, transparent smoky door for operator access to devices fitted, mounting rails for snap-fitting the devices, blanking strip for unused mounting locations, protective shroud with inscription label, including space unit/N bars, fixing straps for wall fixing, sealable cover fasteners, number space units=27, space unit and N-terminals count x cross-section=each 4x(6-35)mm² and 20x(1-4)mm², cover type: transparent smoky, door type: transparent smoky

- [Delivery program](#)

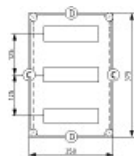
- [Design verification as per IEC/EN 61439](#)

- [Technical data ETIM 7.0](#)

- [Dimensions](#)

Delivery program

Dimensions



Product range

xEnergy Safety Qi

Basic function

Prepared enclosures

Product function

MCB individual enclosures

Accessories

MCB individual enclosures

Single unit/Complete unit

Stand-alone device

Standards

EN 62208

EN 61439-2

Description


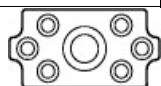
Metric cable entry knockouts in all sides

Housings for e.g. built-in devices MCB, RCD, RCBO, AFDD

Transparent door for operator access to devices fitted

Metal mounting rail for snapping on devices
1 x Blanking strip for unused mounting locations
Protective shroud with inscription label
PE/N combi-plug-in terminals
Fixing straps for wall fixing
Sealable cover fasteners
Degree of Protection
IP65
Width
250 mm
Height
375 mm
Depth
150 mm
Modular spacing (space units)
27 Number
PE and N terminals, quantity x cross-section
On each 3 x (2.5 - 25)
On each 21 x (0.5 - 4) mm²
Model
Type Door
Transparent

Notes

C	
	2 x M50/32 6 x M25/16 8 x M20
D	
	1 x M50/32 6 x M25/16

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]
19 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]
17 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]
16 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]
38 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]
35 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]
32 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 parts 10.2.5 Lifting

10 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 parts 10.2.6 Mechanical impact

IK10

10.2 Strength of materials and parts 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

$U_i = 1000 \text{ V AC}$

10.9 Insulation properties 10.9.3 Impulse withstand voltage

8 kV

10.9 Insulation properties 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) / Small distribution board (EC0000214)

Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Small distribution board (ecl@ss10.0.1-27-14-24-09 [ACN387011])

Mounting method

Surface mounted (plaster)

Number of rows

3

Width in number of modular spacings

9

Type of cover

Door

Cover model

Closed

Transparent cover/door

Yes

Material housing

Plastic

Height

375 mm

Width

250 mm

Depth

150 mm

Built-in depth

100 mm

Internal depth

150 mm

DIN-rail

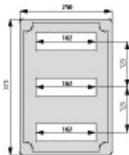
Yes

With mounting plate

No

Extension possible
No
EMC-version
No
Colour
Grey
RAL-number
7035
Degree of protection (IP)
IP65
With lock
No
Type of closure
Other

Dimensions



Additional product information

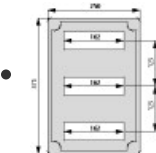
- [model certification xEnergy Safety Qi](#)
(Web)
- [Save time – we assist you with expert pre-assembly](#)
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- [product information xEnergy Safety Qi](#)
(Web)
- [tool for calculating the power loss for switching device combinations](#)
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-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

Product photo

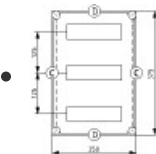


vt29913
Photo
Miniature circuit-breaker enclosure

Dimensions single product



450X002
Line drawing
MCB enclosures



460N082
Line drawing
MCB enclosures

Instruction Leaflet

- [AE_AV-07M-2021-03 \(IL015090ZU\)](#)
Asset
MA170928298
(PDF, 03/21, Language independent)

Declaration of Conformity

EU

- [DA-DC-2013-01-31_Ci_RoHS](#)
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Asset
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