Specifications

# Eaton 281649

## Catalog Number: 281649

Eaton xComfort ECO LV systems Final Distribution Boards. ECO Compact distribution board, surface mounted, 1-rows, 5 MU, IP40, white door



## General specifications

| | |
|---|---|
| **Product Name** | **Catalog Number** |
| Eaton xComfort ECO LV systems Final Distribution Boards | 281649 |
| | **EAN** |
| | 4015082816490 |
| **Product Length/Depth** | **Product Height** |
| 290 mm | 147 mm |
| **Product Width** | **Product Weight** |
| 166 mm | 0.4 kg |
| **Compliances** | **Certifications** |
| RoHS conform | EN 62208 |

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## Product specifications

### Used with

ECO distribution board
Installation distribution board
Basic device

### Special features

IP40
Protection Class II
Plastic housing white (RAL 9003)

### Type

Basic device
ECO distribution board
Installation distribution board

### 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.

### 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

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

Does not apply to enclosures without lifting aids.

## Resources

### Brochures

eaton-xcomfort-compact-distribution-boxes-brochure-br014015en-en-us.pdf

### Catalogs

eaton-xcomfort-compact-distribution-catalog-ca015004en-en-us.pdf

### Certification reports

eaton-xcomfort-eco-declaration-of-conformity-200416-en-us.pdf

### Declarations of conformity

DA-DC-03_xComfort_BC-ECO

### Drawings

eaton-lighting-xcomfort-eco-lv-systems-dimensions.eps

### Installation instructions

IL014002Z

### 10.2.6 Mechanical impact

IK05

### 10.2.7 Inscriptions

Meets the product standard's requirements.

### 10.3 Degree of protection of assemblies

IP40

### 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.

### 10.9.2 Power-frequency electric strength

Ui = 400 V AC

### 10.9.3 Impulse withstand voltage

3.75 kV

### 10.9.4 Testing of enclosures made of insulating material

Meets the product standard's requirements.

### Fitted with:

Basic device

Neutral-/protective conductor terminal

Device support rails

### Enclosure material

Plastic

### Built-in height

0 mm

### Built-in width

0 mm

### Cable entry postion

Metric cable entries on top and bottom

### Terminal type

Screw terminals

### Built-in depth

70 mm

Heat diss. ambient 35°C delta T:20°C wall mount individ. encl. top (IEC 60890)

5 W

Closure type

Other

Cover/door color

White

Cover/door model

Closed

Cover/door type

Door

Single

RAL-number

9003

Width in number of modular spacings

5

Ambient operating temperature details

-20 °C - 70 °C

Application

Indoor (installation site)

Voltage rating at AC

400 V AC

Color

Signal white (RAL 9003)

White

Number of rows

1

Frequency rating of contacts

50 Hz

Module rack type

Single-rail

Degree of protection

IK05 (impact resistance)

IP40

Number of module space units per row

5

Protection class

II (totally insulated)

### Protective shrouding material

Plastic

### Functions

Basic device

### Material

ABS (plastic)

### Mounting method

DIN-rail

Surface mounted (plaster)

Surface mounting

### Heat diss. ambient 35°C delta T:35°C wall mount individ. encl. top (IEC 60890)

10 W

### Internal depth

85 mm

### PE and N terminal number and cross section

N: 4 x 10 mm²

PE: 4 x 10 mm²

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