

# Specifications

## Eaton 281710

Eaton xComfort ECO LV systems Final Distribution Boards. ECO Compact distribution board, flush mounting, 2-rows, 12 MU, IP40, white door

### General Specifications

<b>PRODUCT NAME</b>	Eaton xComfort ECO LV systems Final Distribution Boards
<b>CATALOG NUMBER</b>	281710
<b>EAN</b>	4015082817107
<b>PRODUCT LENGTH/DEPTH</b>	103 mm
<b>PRODUCT HEIGHT</b>	406 mm
<b>PRODUCT WIDTH</b>	303 mm
<b>PRODUCT WEIGHT</b>	1.34 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	EN 62208
<b>MODEL CODE</b>	BC-U-2/24-TW-ECO



Powering Business Worldwide

## Additional information

**FITTED WITH:** Device support rails  
Basic device  
Neutral-/protective  
conductor terminal

**FUNCTIONS** Basic device  
Sealable

**PROTECTION CLASS** II (totally insulated)

**RAL-NUMBER** 9003

**SPECIAL FEATURES**

- IP40
- Protection Class II
- Plastic housing  
white (RAL 9003)

**USED WITH** Installation distribution  
board  
ECO distribution board  
Basic device

## Delivery programme

**APPLICATION** Indoor (installation site)

**COLOR** Signal white (RAL 9003)  
White

**TYPE**

- Basic device
- ECO distribution  
board
- Installation  
distribution board

## Design verification to IEC/EN 61439

<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility.
<b>10.13 MECHANICAL FUNCTION</b>	Meets the product standard's requirements.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	850 °C; meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Not relevant to indoor installations.
<b>10.2.5 LIFTING</b>	Does not apply to enclosures without lifting aids.
<b>10.2.6 MECHANICAL IMPACT</b>	IK05
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	IP40
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Is the panel builder's responsibility.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Protection class 2, therefore not applicable.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Is the panel builder's responsibility.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR</b>	Is the panel builder's

## Design verification to IEC/EN 61439 - technical data

<b>AMBIENT OPERATING TEMPERATURE DETAILS</b>	-20 °C - 70 °C
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<b>EXTERNAL CONDUCTORS</b>	responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	U <sub>i</sub> = 400 V AC
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	3.75 kV
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Meets the product standard's requirements.

### Technical data - electrical

<b>FREQUENCY RATING OF CONTACTS</b>	50 Hz
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### Technical data - mechanical

<b>BUILT-IN DEPTH</b>	70 mm
<b>CABLE ENTRY POSTION</b>	Cable entry ribs on top and bottom
<b>CLOSURE TYPE</b>	Other
<b>COVER/DOOR COLOR</b>	White
<b>COVER/DOOR MODEL</b>	Closed
<b>COVER/DOOR TYPE</b>	Door Single
<b>DEGREE OF PROTECTION</b>	IP40 IK05 (impact resistance)
<b>ENCLOSURE MATERIAL</b>	Plastic
<b>INTERNAL DEPTH</b>	95 mm
<b>MATERIAL</b>	ABS (plastic)
<b>MODULE RACK TYPE</b>	Single-rail
<b>MOUNTING METHOD</b>	DIN-rail Flush mounted (plaster) Flush mounting
<b>NUMBER OF MODULE SPACE UNITS PER ROW</b>	12
<b>NUMBER OF ROWS</b>	2
<b>PE AND N TERMINAL NUMBER AND CROSS SECTION</b>	PE: 2 x (12 mm <sup>2</sup> x 10 mm <sup>2</sup> ) N: 2 x (12 mm <sup>2</sup> x 10 mm <sup>2</sup> )
<b>PROTECTIVE SHROUDING MATERIAL</b>	Plastic
<b>TERMINAL TYPE</b>	Screw terminals
<b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>	12

## Resources

BROCHURES	<a href="#">eaton-xcomfort-compact-distribution-boxes-brochure-br014015en-en-us.pdf</a>
CERTIFICATION REPORTS	<a href="#">eaton-xcomfort-eco-declaration-of-conformity-200416-en-us.pdf</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-lv-systems-declaration-of-conformity-eu250255en.pdf</a>
DRAWINGS	<a href="#">eaton-lighting-xcomfort-eco-lv-systems-dimensions-020.eps</a> <a href="#">eaton-lighting-xcomfort-eco-lv-systems-dimensions-012.eps</a>
INSTALLATION INSTRUCTIONS	<a href="#">eaton-xcomfort-eco-installation-leaflet-il014002zu.pdf</a>

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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