

# Specifications

## Eaton 281698

Eaton xComfort ECO LV systems Final Distribution Boards. ECO Compact distribution board, flush mounting, 1-rows, 12 MU, IP40, white door

### General Specifications

<b>PRODUCT NAME</b>	Eaton xComfort ECO LV systems Final Distribution Boards
<b>CATALOG NUMBER</b>	281698
<b>EAN</b>	4015082816988
<b>PRODUCT LENGTH/DEPTH</b>	315 mm
<b>PRODUCT HEIGHT</b>	130 mm
<b>PRODUCT WIDTH</b>	220 mm
<b>PRODUCT WEIGHT</b>	0.8 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	EN 62208
<b>MODEL CODE</b>	BC-U-1/12-TW-ECO



Powering Business Worldwide

## Additional information

<b>FITTED WITH:</b>	Basic device Neutral-/protective conductor terminal Device support rails
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<b>FUNCTIONS</b>	Basic device Sealable
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<b>PROTECTION CLASS</b>	II (totally insulated)
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<b>RAL-NUMBER</b>	9003
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<b>SPECIAL FEATURES</b>	<ul style="list-style-type: none"><li>• IP40</li><li>• Protection Class II</li><li>• Plastic housing white (RAL 9003)</li></ul>
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<b>USED WITH</b>	ECO distribution board Installation distribution board Basic device
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## Delivery programme

<b>APPLICATION</b>	Indoor (installation site)
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<b>COLOR</b>	White Signal white (RAL 9003)
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<b>TYPE</b>	<ul style="list-style-type: none"><li>• Basic device</li><li>• ECO distribution board</li><li>• Installation distribution board</li></ul>
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## 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>	98 mm
<b>MATERIAL</b>	ABS (plastic)
<b>MODULE RACK TYPE</b>	Single-rail
<b>MOUNTING METHOD</b>	Flush mounting Flush mounted (plaster) DIN-rail
<b>NUMBER OF MODULE SPACE UNITS PER ROW</b>	12
<b>NUMBER OF ROWS</b>	1
<b>PE AND N TERMINAL NUMBER AND CROSS SECTION</b>	PE: 12 x 10 mm <sup>2</sup> N: 12 x 10mm <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-018.eps</a> <a href="#">eaton-lighting-xcomfort-eco-lv-systems-dimensions-010.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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