

## ECO Compact distribution board, flush mounting, 2-rows, 12 MU, IP40

Part no. **BC-U-2/24-TW-ECO**  
 Catalog No. **281710**



## Delivery program

Basic function		Basic device
Product function		Installation distribution boards
Product range		ECO DBO
Design		Flush mounted
Installation site		Indoor
Type of installation		Flush mounting
Door/Flap		White
Degree of Protection		IP40
Colour		White
Module rack		Single-rail
Shroud for protection against accidental contact		Plastic
Rows	Count	2
Module units per row		12
Description		IP40 Protection Class II Plastic housing white (RAL 9003)
Cable entries		Cable entry ribs on top and bottom
PE and N terminals design		Screw terminals
PE and N terminals	Number x cross- sectional area	mm <sup>2</sup> PE: 2 x (12 x 10) N: 2 x (12 x 10)
Equipment supplied		Basic device Device support rails Neutral-/protective conductor terminal

## Technical data

## General

Standards		EN 62208
RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council)		conform
Ambient temperature	°C	-20 - +70
Degree of Protection		IP40
Protection class		II (totally insulated)
Rated operational voltage	Ue	V AC 400
Rated frequency	f	Hz 50

## Material characteristics

Material		ABS (plastic)
Colour		white (RAL 9003)

## Material properties

Mechanical		
Impact resistance		IK05

## Design verification as per IEC/EN 61439

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		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.
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 Insulation properties	
10.9.2 Power-frequency electric strength	$U_i = 400 \text{ V AC}$
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.
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 8.0

Distribution boards (EG000023) / Small distribution board (EC000214)

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	Flush mounted (plaster)
Number of rows	2
Width in number of modular spacings	12
Type of cover	Door
Cover model	Closed
Transparent cover/door	No
Material housing	Plastic
Height	mm 406
Width	mm 303
Depth	mm 103
Built-in depth	mm 70
Built-in height	mm 0
Built-in width	mm 0
Internal depth	mm 95
Earthing terminal block	No
Neutral terminal block	No
DIN-rail	Yes
With mounting plate	No
Extension possible	No
EMC-version	No
Colour	White
RAL-number	9003
Degree of protection (IP)	IP40
With lock	No
Type of closure	Other
Signal passing door	No