

ECO Compact distribution board, surface mounted, 1-rows, 12 MU, IP40



Part no. **BC-0-1/12-TW-ECO**
 Catalog No. **281691**

Delivery program

Basic function		Basic device
Product function		Installation distribution boards
Product range		ECO DBO
Design		Surface mounted
Installation site		Indoor
Type of installation		Surface mounting
Door/Flap		White
Degree of Protection		IP40
Colour		White
Module rack		Single-rail
Shroud for protection against accidental contact		Plastic
Rows	Count	1
Module units per row		12
Description		IP40 Protection Class II Plastic housing white (RAL 9003)
Cable entries		Metric cable entries on top and bottom
PE and N terminals design		Screw terminals
PE and N terminals	Number x cross- sectional area	mm ² PE: 12 x 10 N: 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

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 60890			
Individual enclosure for wall mounting	P _V	W	13
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890			
Individual enclosure for wall mounting	P _V	W	26
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 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		Surface mounted (plaster)
Number of rows		1
Width in number of modular spacings		12
Type of cover		Door
Cover model		Closed
Transparent cover/door		No
Material housing		Plastic
Height	mm	130
Width	mm	220
Depth	mm	310
Built-in depth	mm	70
Built-in height	mm	0
Built-in width	mm	0
Internal depth	mm	90
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

