



ECO Compact distribution board, surface mounted, 1-rows, 5 MU, IP40

Part no. BC-O-1/5-TW-ECO
Catalog No. 281649

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			5
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: 4 x 10 N: 4 x 10
Equipment supplied			Basic device Device support rails Neutral-/protective conductor terminal

Technical data

General

Standards			EN 62208_x
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	U _e	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

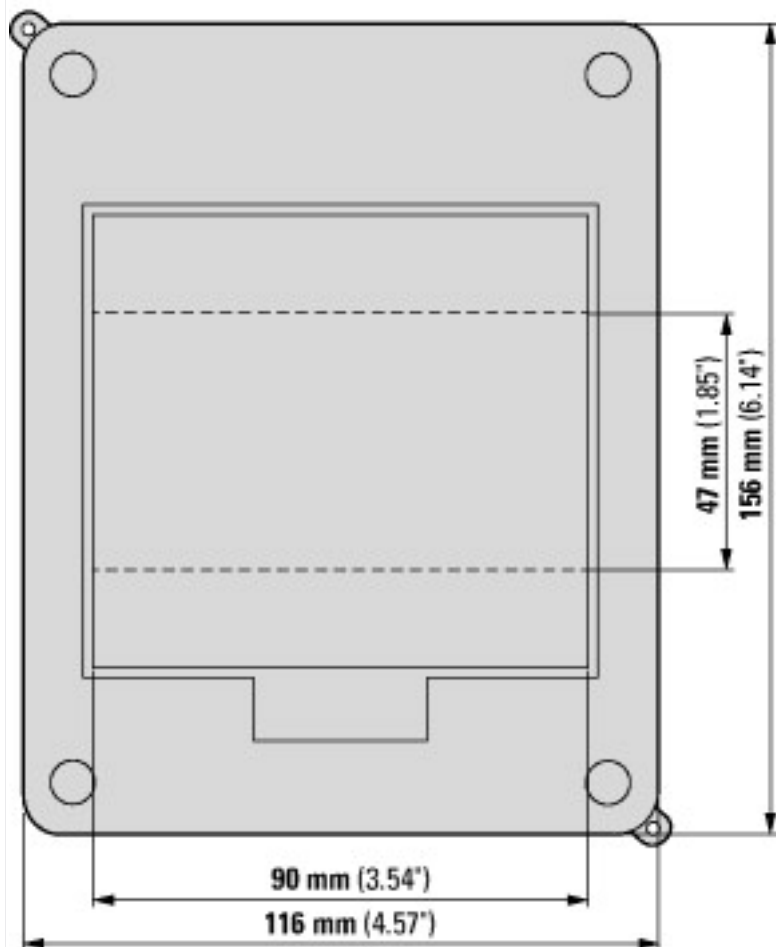
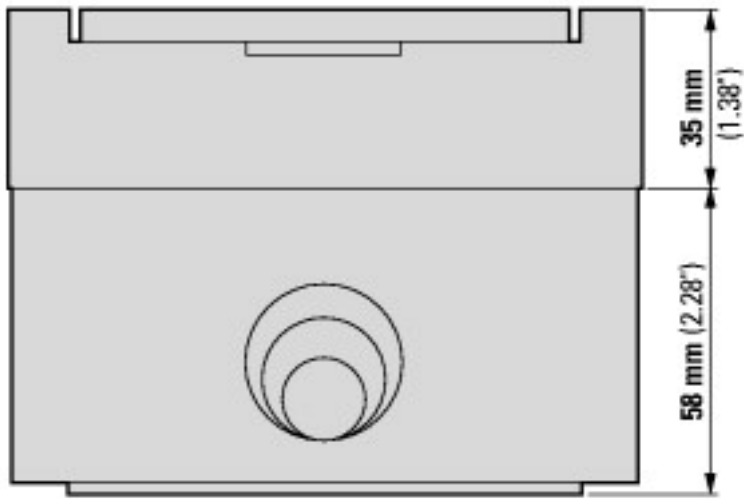
Technical data for design verification			
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees, calculated as per IEC 60890			
Individual enclosure for wall mounting	P _v	CO	5
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890			
Individual enclosure for wall mounting	P _v	CO	10
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 6.0

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@ss8.1-27-14-24-09 [ACN387008])			
Mounting method			Surface mounting
Number of rows			1
Width in number of modular spacings			5
Type of cover			Door
Cover model			Closed
Transparent cover/door			No
Material housing			Plastic
Height		mm	156
Width		mm	116
Depth		mm	93
Built-in depth		mm	70
Internal depth		mm	85
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

Dimensions



Additional product information (links)

IL014002Z ECO compact distribution board

IL014002Z ECO compact distribution board

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL014002ZU2014_02.pdf

Product overview (Web)

<http://www.eaton.eu/DE/Europe/Electrical/ProductsServices/Residential/index.htm>