

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

Powering Business Worldwide*

Part no. BC-U-2/24-ECO Article no. 280356

Delivery programme

Delivery programme			
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			Transparent
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 ²	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_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	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

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 850 °C; meets the product standard's requirements.		
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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 850 °C; meets the product standard's requirements.	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat 850 °C; 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.
and fire due to internal electric effects	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.	10.2.4 Resistance to ultra-violet (UV) radiation	Not relevant to indoor installations.

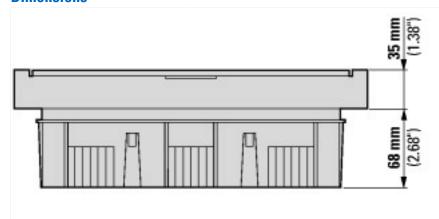
10.2.5 Lifting	Does not apply to enclosures without lifting aids.
10.2.6 Mechanical impact	IK05
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	IP40
10.4 Clearances and creepage distances	Is the panel builder's responsibility.
10.5 Protection against 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.

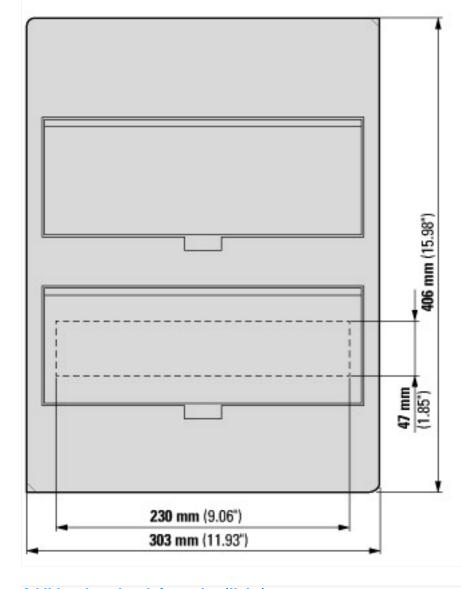
Technical data ETIM 6.0

Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Small distribution board (per (@ss8 1-77-14-24-09 [ACN387008])

Number of rows 2 Width in number of modular spacings 12 Type of cover 0oor Cover model (losed Transparent cover/door ** Plastic Material housing mm 303 Height mm 303 Width in unberof modular spacings mm 303 Height mm 303 Width (a) mm 70 Height mm 70 Internal depth mm 95 Internal depth mm 95 With mounting plate mm 90 Extension possible mo No Extension mo No Colour mo No RAL-number mo 9003 Degree of protection (IP) lp40	(ecl@ss8.1-27-14-24-09 [ACN387008])		
Width in number of modular spacings 12 Trype of cover Door Cover model Closed Transparent cover/door Yes Material housing Plastic Height MM 406 Width MM 303 Depth MM 103 Built-in depth MM 95 Internal depth MM 95 With mounting plate No No Extension possible No No EMC-version No No Colour White White RAL-number 9003 9003 Degree of protection (IP) 1940 1940	Mounting method		Flush mounted (plaster)
Type of cover Door Cover model Closed Transparent cover/door Yes Material housing Image: Material housing Height Image: Material housing Width Image: Material housing Width Image: Material housing Width Image: Material housing Built-in depth Image: Material housing Internal depth Image: Material housing Internal depth Image: Material housing With mounting plate Image: Material housing Extension possible Image: Material housing EMC-version Image: Material housing Colour White RAL-number Image: Material housing Degree of protection (IP) Ip40	Number of rows		2
Cover model Closed Transparent cover/door Yes Material housing Plastic Height mm 406 Wridth mm 303 Depth mm 103 Built-in depth mm 70 Internal depth mm 95 UNIVITATION Yes With mounting plate No Extension possible No EMC-version No Colour White RAL-number 9003 Degree of protection (IP) IE40	Width in number of modular spacings		12
Transparent cover/door Yes Material housing Plastic Height mm 406 Width mm 303 Depth mm 103 Built-in depth mm 70 Internal depth mm 95 DIN-rail Yes No With mounting plate No No Extension possible No No EMC-version No White Colour White White RAL-number 9003 1H40	Type of cover		Door
Material housing Plastic Height mm 406 Width mm 303 Depth mm 103 Built-in depth mm 70 Internal depth mm 95 DIN-rail Yes With mounting plate No Extension possible No EMC-version No Colour White RAL-number 9003 Degree of protection (IP) 1P40	Cover model		Closed
Height mm 406 Width mm 303 Depth mm 103 Built-in depth mm 70 Internal depth mm 95 DIN-rail Yes With mounting plate No Extension possible No EMC-version No Colour White RAL-number 9003 Degree of protection (IP) IP40	Transparent cover/door		Yes
Width mm 303 Depth mm 103 Built-in depth mm 70 Internal depth mm 95 DIN-rail Yes With mounting plate No Extension possible No No EMC-version No No Colour White White RAL-number 9003 1940	Material housing		Plastic
Depth mm 103 Built-in depth mm 70 Internal depth mm 95 DIN-rail Yes With mounting plate No Extension possible No EMC-version No Colour White RAL-number 9003 Degree of protection (IP) IP40	Height	mm	406
Built-in depth mm 70 Internal depth mm 95 DIN-rail Yes With mounting plate No Extension possible No EMC-version No Colour White RAL-number 9003 Degree of protection (IP) IP40	Width	mm	303
Internal depth mm 95 DIN-rail Yes With mounting plate No Extension possible No EMC-version No Colour White RAL-number 9003 Degree of protection (IP) IP40	Depth	mm	103
DIN-rail Yes With mounting plate No Extension possible No EMC-version No Colour White RAL-number 9003 Degree of protection (IP) IP40	Built-in depth	mm	70
With mounting plate Extension possible MC-version Colour RAL-number Degree of protection (IP) No No White P003 P140	Internal depth	mm	95
Extension possible EMC-version No Colour RAL-number Degree of protection (IP) No No White 1903 1P40	DIN-rail		Yes
EMC-version No Colour White RAL-number 9003 Degree of protection (IP) IP40	With mounting plate		No
Colour White RAL-number 9003 Degree of protection (IP) IP40	Extension possible		No
RAL-number 9003 Degree of protection (IP) IP40	EMC-version		No
Degree of protection (IP)	Colour		White
	RAL-number		9003
With lock No	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