# **DATASHEET - BC-0-1/8-TW-ECO**



# ECO Compact distribution board, surface mounted, 1-rows, 8 MU, IP40

Powering Business Worldwide\*

Part no. BC-0-1/8-TW-ECO Catalog No. 281690

## **Delivery program**

belivery 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			8
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 <sup>2</sup>	PE: 8 x 10 N: 8 x 10
Equipment supplied			Basic device Device support rails Neutral-/protective conductor terminal

#### **Technical data**

#### General

		EN 62208_x
		conform
	°C	-20 - +70
		IP40
		II (totally insulated)
Ue	V AC	400
f	Hz	50
		ABS (plastic)
		white (RAL 9003)
		IK05
	Ue f	Ue V AC

# 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	$P_{V}$	CO	8
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	$P_{V}$	CO	17
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 <sub>i</sub> = 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.

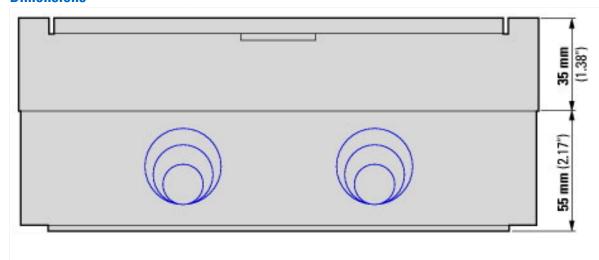
## **Technical data ETIM 7.0**

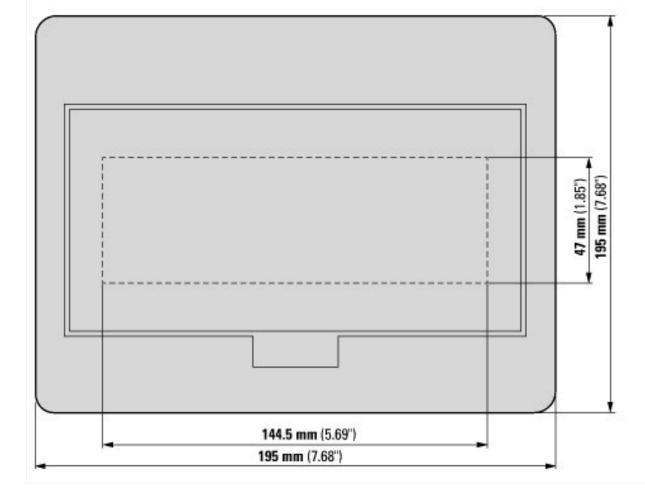
Distribution boards (EG000023) / Small distribution board (EC000214)

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])

Number of rows         Image: Cover of cove			
Width in number of modular spacings         8           Type of cover         100 por           Cover model         10 sed           Transparent cover/door         No           Meterial housing         1 plastic           Height         mm         195           Width         mm         195           Depth         mm         9           Built-in depth         mm         70           Internal depth         mm         70           With mounting plate         yes         Yes           Extension possible         No         No           EMC-version         No         No           Colour         No         No           RAL-number         9003         Withite           Degree of protection (IP)         Ho         Ho           With lock         Ho	Mounting method		Surface mounted (plaster)
Type of cover         Door           Cover model         Closed           Transparent cover/door         No           Material housing         Image: Plastic           Height         Image: Plastic           Width         Image: Plastic           Depth         Image: Plastic           Built-in depth         Image: Plastic           Internal depth         Image: Plastic           Internal depth         Image: Plastic           With mounting plate         Image: Plastic           Extension possible         Image: Plastic           Extension possible         Image: Plastic           Colour         Image: Plastic           Colour         Image: Plastic           RAL-number         Image: Plastic           Degree of protection (IP)         Image: Plastic           With lock         Image: Plastic           With lock         Image: Plastic           Image: Plastic         Image: Plastic           Imag	Number of rows		1
Cover model         Closed           Transparent cover/door         No           Material housing         Flastic           Height         mm         195           Width         mm         90           Depth         mm         70           Internal depth         mm         82           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	Width in number of modular spacings		8
Transparent cover/door         No           Material housing         Plastic           Height         mm         195           Width         mm         90           Depth         mm         70           Built-in depth         mm         82           Internal depth         mm         82           With mounting plate         Yes           Extension possible         No         No           Extension possible         No         No           EMC-version         No         Withe           Colour         White         White           RAL-number         9003           Degree of protection (IP)         IP40           With lock         No	Type of cover		Door
Material housing         Plastic           Height         mm         195           Width         mm         90           Depth         mm         70           Internal depth         mm         82           DIN-rail         Yes           With mounting plate         No           Extension possible         No           Extension possible         No           EMC-version         No           Colour         White           RAL-number         9003           Degree of protection (IP)         IP40           With lock         No	Cover model		Closed
Height         mm         195           Width         mm         195           Depth         mm         90           Built-in depth         mm         70           Internal depth         mm         82           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	Transparent cover/door		No
Width         mm         195           Depth         mm         90           Built-in depth         mm         70           Internal depth         mm         82           DIN-rail         Yes           With mounting plate         No         No           Extension possible         No         No           EMC-version         No         White           Colour         White         9003           RAL-number         9003         1P40           Degree of protection (IP)         IP40         No	Material housing		Plastic
Depth         mm         90           Built-in depth         mm         70           Internal depth         mm         82           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	Height	mm	195
Built-in depth         mm         70           Internal depth         mm         82           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	Width	mm	195
Internal depth         mm         82           DIN-rail         Yes           With mounting plate         No           Extension possible         No           EMC-version         No           Colour         No           RAL-number         White           Degree of protection (IP)         IP40           With lock         No	Depth	mm	90
DIN-rail With mounting plate With mounting possible Extension possible EMC-version Colour RAL-number Degree of protection (IP) With lock  Yes No	Built-in depth	mm	70
With mounting plate         No           Extension possible         No           EMC-version         No           Colour         White           RAL-number         9003           Degree of protection (IP)         IP40           With lock         No	Internal depth	mm	82
Extension possible         No           EMC-version         No           Colour         White           RAL-number         9003           Degree of protection (IP)         IP40           With lock         No	DIN-rail		Yes
EMC-versionNoColourWhiteRAL-number9003Degree of protection (IP)IP40With lockNo	With mounting plate		No
Colour White RAL-number 9003 Degree of protection (IP) IP40 With lock No	Extension possible		No
RAL-number 9003 Degree of protection (IP) IP40 With lock No	EMC-version		No
Degree of protection (IP)  With lock  No	Colour		White
With lock No	RAL-number		9003
	Degree of protection (IP)		IP40
Type of closure Other	With lock		No
	Type of closure		Other

## **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