DATASHEET - BC-0-1/18-TW-ECO



ECO Compact distribution board, surface mounted, 1-rows, 18 MU, IP40



Part no. BC-0-1/18-TW-ECO Catalog No. 281692

Delivery program

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			18
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: 18 x 10 N: 18 x 10
Equipment supplied			Basic device Device support rails Neutral-/protective conductor terminal

Technical data

General

delierai			
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

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	19
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	38
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 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 the cover of	, consistent of the property		
Width in number of modular spacings 18 Type of cover 100 or Cover model 10 sed Transparent cover/door No Material housing 1 plastic Height mm 260 Width mm 40 Depth mm 98 Built-in depth mm 70 Internal depth mm 70 With mounting plate yes Extension possible No EMC-version No Colour No RAL-number With received for retection (IP) White With lock IP40	Mounting method		Surface mounted (plaster)
Type of cover boor Cover model Closed Transparent cover/door No Material housing Jestic Height mm 260 Width mm 410 Depth mm 38 Built-in depth mm 70 Internal depth mm 90 With mounting plate yes Extension possible No Extension possible No EMC-version No Colour No RAL-number Wihite RAL-number Mo Segree of protection (IP) IP40 With lock No	Number of rows		1
Cover model Ecosed Transparent cover/door No Material housing Flastic Height 80 Width 10 Depth 410 Built-in depth mm Built-in depth mm Internal depth mm DIN-rail Yes With mounting plate No Extension possible No EMC-version No Colour White RAL-number 9003 Degree of protection (IP) 1P40 With lock No	Width in number of modular spacings		18
Transparent cover/door No Material housing Plastic Height 760 Width 410 Depth mm 98 Built-in depth mm 70 Internal depth mm 90 UN-rail Yes With mounting plate No No Extension possible No No EMC-version No White Colour White White RAL-number 9003 Plate Degree of protection (IP) IP40 No With lock No No	Type of cover		Door
Material housing Plastic Height mm 260 Width mm 410 Depth mm 98 Built-in depth mm 70 Internal depth mm 90 With mounting plate No Yes Extension possible No No EMC-version No White Colour White White RAL-number 9003 1P40 Degree of protection (IP) IP40 With lock No No	Cover model		Closed
Height mm 260 Width mm 410 Depth mm 98 Built-in depth mm 70 Internal depth mm 90 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 410 Depth mm 98 Built-in depth mm 70 Internal depth mm 90 DIN-rail Yes With mounting plate No No Extension possible No No EMC-version No White Colour White White RAL-number 9003 1940 Degree of protection (IP) IP40 No With lock No No	Material housing		Plastic
Depth mm 98 Built-in depth mm 70 Internal depth mm 90 DIN-rail Yes With mounting plate No Extension possible No EMC-version No Colour No RAL-number White Degree of protection (IP) P003 With lock IP40 No	Height	mm	260
Built-in depth mm 70 Internal depth mm 90 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	Width	mm	410
Internal depth DIN-rail With mounting plate Extension possible EMC-version Colour RAL-number RAL-number Degree of protection (IP) With lock Mm	Depth	mm	98
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	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	90
Extension possible EMC-version Colour RAL-number Degree of protection (IP) With lock No No No No No No No No No N	DIN-rail		Yes
EMC-version No Colour White RAL-number 9003 Degree of protection (IP) IP40 With lock No	With mounting plate		No
ColourWhiteRAL-number9003Degree of protection (IP)IP40With lockNo	Extension possible		No
RAL-number 9003 Degree of protection (IP) IP40 With lock No	EMC-version		No
Degree of protection (IP) With lock IP40 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 63 mm (2.48") 260 mm (10.24") 47 mm (1.85") 335 mm (13.19")

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	

410 mm (16.14")