## DATASHEET - BC-0-2/24-ECO

ECO Compact distribution board, surface mounted, 2-rows, 12 MU, IP40



Part no.	
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BC-0-2/24-EC0 280349

General specifications	
Product name	Eaton xComfort ECO LV systems Final Distribution Boards
Part no.	BC-0-2/24-EC0
EAN	4015082803490
Product Length/Depth	415 millimetre
Product height	110 millimetre
Product width	310 millimetre
Product weight	1.8 kilogram
Compliances	RoHS conform
Certifications	EN 62208
Product Tradename	xComfort ECO
Product Type	LV systems
Product Sub Type	Final Distribution Boards
Delivery program	
Туре	Basic device ECO distribution board Installation distribution board
Application	Indoor (installation site)
Color	White Signal white (RAL 9003)
Technical Data - Electrical	
Frequency rating of contacts	50 Hz
Technical Data - Mechanical	
Closure type	Other
Enclosure material	Plastic
Width in number of modular spacings	12
Mounting method	Surface mounted (plaster) DIN-rail Surface mounting
Material	ABS (plastic)
Degree of protection	IP40 IK05 (impact resistance)
Number of module space units per row	12
Number of rows	2
Terminal type	Screw terminals
PE and N terminal number and cross section	N: 2 x (12 mm <sup>2</sup> x 10 mm <sup>2</sup> ) PE: 2 x (12 mm <sup>2</sup> x 10 mm <sup>2</sup> )
Built-in depth	70 mm
Built-in height	0 mm
Built-in width	0 mm
Internal depth	90 mm
Cover/door color	Transparent
Cover/door model	Closed
Cover/door type	Door Single
Module rack type	Single-rail
Protective shrouding material	Plastic
Temperature-rise verification as per IEC 60890	
Heat diss. ambient 35°C delta T:20°C wall mount individ. encl. top (IEC 60890)	19 W
Heat diss. ambient 35°C delta T:35°C wall mount individ. encl. top (IEC 60890)	38 W
Design verification as per IEC/EN 61439 - technical data	
Ambient operating temperature details	-20 °C - 70 °C

Design verification as per IEC/EN 61439	
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 Power-frequency electric strength	Ui = 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.
Additional information	
Fitted with:	Neutral-/protective conductor terminal Basic device Device support rails
Functions	Basic device
Protection class	II (totally insulated)
RAL-number	9003
Special features	IP40 Protection Class II Plastic housing white (RAL 9003)
Used with	Basic device ECO distribution board Installation distribution board

## **Technical data ETIM 9.0**

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

Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (including small distribution board) / Small distribution board (ecl@ss13-27-14-24-09 [ACN387016])

Number of rows2With in number of modular spacings23Kype of coveringCover nodelCover nodelCover modelCover nodelCover nodelKype of doorCover nodelSingleKype of doorSingleSingleKype of closureSingleSingleKype of closureSingleSingleHousing materialSingleSingleSult-in heightSingleSingleSult-in height <th></th> <th></th> <th></th>			
With in number of modular spacingsImage: Part of the spacing spacing spacing spacing spacing spacing spacing spacing spacing space	Mounting method		Surface mounted
Type of covering         Door           Cover model         Cover model         Closed           Type of door         Single         Single           Transparent cover/door         Yes         No           Signal passing door         Mo         No           With lock         Mo         No           Signal passing door         Mo         No           With lock         Mo         No           Sugna passing door         Mo	Number of rows		2
Cover model       Cover model         Cover model       Cover model         Type of door       Sigle         Transparent cover/door       Yes         Signal passing door       No         With lock       No         Type of closure       No         Housing material       Other         Built-in height       Mm         Built-in width       Mm         Built-in width       Mm         Starting terminal block       Mm         Built-in terminal block       Mm         Starting terminal block       Mither	Width in number of modular spacings		12
Type of door         Single           Fransparent cover/door         Single           Signal passing door         Single           Signal passing door         Single           Nith lock         Single           Type of closure         Single           Housing material         Single           Built-in depth         Single           Built-in height         Single           Suit-in vidth         Single           In er depth         Single           Suit-in loght         Single           Suit-in height         Single           Suit-in height         Single           Suit-in height         Single           Suit-in height         Single           Suit-in width         Single           Suit-in width         Single           Single Single         Single <td< td=""><td>Type of covering</td><td></td><td>Door</td></td<>	Type of covering		Door
Transparent cover/door       Fee       Fee         Signal passing door       Fee       No         Nith lock       No       No         Type of closure       Fee       Descention         Housing material       Fee       Descention         Built-in depth       mm       70         Built-in height       mm       0         Built-in vidth       mm       90         Inner depth       mm       90         Earthing terminal block       Fee       No	Cover model		Closed
Signal passing door       No         With lock       No         Type of closure       Other         Housing material       Mm         Built-in depth       mm         Built-in height       mm         Built-in width       mm         Inner depth       mm         Earthing terminal block       Mm         Built-in leight       mm         Suit-in kight terminal block       Mm	Type of door		Single
With lockNoType of closureMinHousing materialMinBuilt-in depthMinBuilt-in heightMinBuilt-in widthMinInner depthMinEarthing terminal blockMinBuilt-in heightMinBuilt-in heightMinBuilt-in heightMinBuilt-in widthMinBuilt-in heightMinBuilt-in heightMinBuilt-in heightMinBuilt-in heightMinBuilt-in heightMinBuilt-in widthMinBuilt-in heightMinBuilt-in he	Transparent cover/door		Yes
Type of closure       Mode	Signal passing door		No
Housing materialImage: PlasticBuilt-in depthmm70Built-in heightmm0Built-in widthmm0Inner depthmm90Earthing terminal blockmmNoNutral terminal blockmmNo	With lock		No
Built-in depth and the set of the	Type of closure		Other
Built-in height 0 Built-in width mm 0 Inner depth Information Informatio Information Information Infor	Housing material		Plastic
Built-in width     mm     0       inner depth     mm     90       Earthing terminal block     Mm     No       Neutral terminal block     Mm     No	Built-in depth	mm	70
Inner depth     mm     90       Earthing terminal block     Imm     No       Neutral terminal block     Imm     No	Built-in height	mm	0
Earthing terminal block     Mo       Noutral terminal block     Mo	Built-in width	mm	0
Neutral terminal block No	Inner depth	mm	90
	Earthing terminal block		No
DIN-rail Yes	Neutral terminal block		No
	DIN-rail		Yes

With mounting plate		No
Extension possible		No
EMC-version		No
UV resistant		No
Colour		White
RAL-number		9003
Degree of protection (IP)		IP40
Height	mm	110
Width	mm	310
Depth	mm	415