DATASHEET - BC-O-1/12-ECO

ECO Compact distribution board, surface mounted, 1-rows, 12 MU, IP40

Part no. **BC-O-1/12-ECO**
280347

General specifications

Product name		Eaton xComfort ECO LV systems Final Distribution Boards
Part no.		BC-O-1/12-ECO
EAN		4015082803476
Product Length/Depth		98 millimetre
Product height		212 millimetre
Product width		303 millimetre
Product weight		0.91 kilogram
Compliances		RoHS conform
Certifications		EN 62208
Product Tradename		xComfort ECO
Product Type		LV systems
Product Sub Type		Final Distribution Boards

Delivery program

Type		Basic device ECO distribution board Installation distribution board
Application		Indoor (installation site)
Color		Signal white (RAL 9003) White

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		DIN-rail Surface mounting Surface mounted (plaster)
Material		ABS (plastic)
Degree of protection		IP40 IK05 (impact resistance)
Number of module space units per row		12
Number of rows		1
Terminal type		Screw terminals
PE and N terminal number and cross section		PE: 12 x 10 mm^2 N: 12 x 10mm^2
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)		13 W
Heat diss. ambient 35°C delta T:35°C wall mount individ. encl. top (IEC 60890)		26 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:		Basic device Neutral-/protective conductor terminal 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])

Mounting method		Surface mounted
Number of rows		1
Width in number of modular spacings		12
Type of covering		Door
Cover model		Closed
Type of door		Single
Transparent cover/door		Yes
Signal passing door		No
With lock		No
Type of closure		Other
Housing material		Plastic
Built-in depth	mm	70
Built-in height	mm	0
Built-in width	mm	0
Inner depth	mm	90
Earthing terminal block		No
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	212	
Width		mm	303	
Depth		mm	98	