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



Part no. BC-0-1/12-EC0 280347

General specifications	
Product name	Eaton xComfort ECO LV systems Final Distribution Boards
Part no.	BC-0-1/12-EC0
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	
Туре	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 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 Meets the product standard's requirements.		
10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.5 Lifting 10.2.5 Lifting 10.2.5 Inscriptions 10.2.7 Inscriptions 10.3.0 egree of protection of assemblies 10.4.1 Resistance and creepage distances 10.5.5 Protection against electric shock 10.5.6 Mechanical impact 10.6.5 Mechanical inspact 10.7 Internal electrical circuits and connections 10.8 Incorporation of switching devices and components 10.5 Protection against electric shock 10.5 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.9 Internal electrical circuits and connections 10.10 Timernal electrical circuits and connections 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Estimation 10.15 Hord circuit rating 10.16 Emperature rise 10.17 Estimation 10.18 Estimation 10.19 Estimation 10.19 Estimation 10.10 Estimation 10.10 Estimation 10.11 Short-circuit rating 10.12 Estimation 10.13 Estimation 10.14 Estimati	Design verification as per IEC/EN 61439	
10.2.3.2 Varification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Machanical impact 10.2.7 Inscriptions 10.2.7 Inscriptions 10.3.0 Egree of protection of assemblies 10.4.1 Clearances and creapage distances 10.5.1 Every expensive expens	10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.8 Inscriptions 10.2.8 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Incorporation of switching devices and components 10.9 Incorporation of switching devices and components 10.9 Protection against electric strength 10.9 Protection external conductors 10.9 Incorporation of switching devices and components 10.9 Protection spainst electric strength 10.9 Protection external conductors 10.9 Protection devices external conductors 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.16 Mechanical function 10.17 Mechanical function 10.18 Mechanical function 10.19 Mechanical function 10.10 Mechanical function 10.10 Mechanical function 10.10 Mechanical function 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.15 Mechanic	10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.1 Inscriptions 10.3. Degree of protection of assemblies 10.3. Degree of protection of assemblies 10.4. Clearances and creepage distances 10.5 Protection against electric shock 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.9.2 Power-frequency electric strength 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Fitted with: Finctions Protection class RAL-number Special features Used with Electrical colors of externial conductors Internal electrical colors of external conductor engine and external conductor external colors of external conductor external colors of exte	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 Protection against shock 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Functions Protection class RAL-number Protection class RAL-number Special features Used with Basic device RAL-number Special features Used with	10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	850 °C; meets the product standard's requirements.
10.2.5 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Fittad with: Fittad with: Fittad with: Protection class RAL-number Protection of sexternal conductors 10.6 Protection of sexternal conductors 10.7 Internal electrical circuits and connections Is the panel builder's responsibility. Ui = 400 V AC 3.75 kV Weets the product standard's requirements. The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. Basic device Neutral-protective compatibility. Basic device Protection class RAL-number Protection class RAL-number Special features Used with Basic device Protection Class II Plastic housing white (RAL 9003) Basic device Protection Class II Plastic housing white (RAL 9003)	10.2.4 Resistance to ultra-violet (UV) radiation	Not relevant to indoor installations.
10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Fitted with: Functions Protection class RAL-number Special features Used with Basic device P40 Protection Class II Plastic housing white (RAL 9003) Basic device P40 Protection Class II Plastic housing white (RAL 9003) Basic device P40 Protection Lass II Plastic housing white (RAL 9003) Basic device P40 Protection Lass II Plastic housing white (RAL 9003)	10.2.5 Lifting	Does not apply to enclosures without lifting aids.
10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Fitted with: Protection class 1P40 Protection class 2, therefore not applicable. Is the panel builder's responsibility. Is the panel builder's responsibility. Ui = 400 V AC 3.75 kV Meets the product standard's requirements. Meets the product standard's requirements. Is the panel builder's responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. Meets the product standard's requirements. Additional information Fitted with: Basic device Neutral-/protective conductor terminal Device support rails Basic device Neutral-/protective conductor terminal Device support rails Functions Basic device Protection class II Plastic housing white (RAL 9003) Special features Used with Basic device ECO distribution board	10.2.6 Mechanical impact	IK05
10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Fitted with: Functions Protection class RAL-number Special features Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. Is the panel builder's responsible for the temperature rise calculation. Eaton will provide builder's responsible for the temperature for the devices.	10.2.7 Inscriptions	Meets the product standard's requirements.
10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Functions Protection class RAL-number Special features Used with Protection class 2, therefore not applicable. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. Is the panel builder's responsible to the devices. Router the temperature the devices. Is the panel builder's respons	10.3 Degree of protection of assemblies	IP40
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10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Functions Protection class RAL-number Special features Ui = 400 V AC 3.75 kV Meets the product standard's requirements. The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. Basic device Neutral-/protective conductor terminal Device support rails Basic device Neutral-/protective conductor terminal Device support rails Basic device Protection class RAL-number Special features Used with Basic device 1P40 Protection Class II Plastic housing white (RAL 9003) Basic device ECO distribution board	10.5 Protection against electric shock	Protection class 2, therefore not applicable.
10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Functions Functions Protection class RAL-number Special features Ui = 400 V AC 3.75 kV Meets the panel builder's responsibility. The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder's responsibility. Is the panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. Is the panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. It to the panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. It to the panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. It to the panel builder is responsible for the temperature rise calculation. Eaton will p	10.6 Incorporation of switching devices and components	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength 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 1s the panel builder's responsibility. 10.12 Electromagnetic compatibility 1s 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 Protection class Il (totally insulated) RAL-number Special features IP40 Protection Class II Plastic housing white (RAL 9003) Basic device ECO distribution board	10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material Meets the product standard's requirements. 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. Meets the product standard's requirements. Additional information Fitted with: Basic device Neutral-/protective conductor terminal Device support rails Functions Protection class Il (totally insulated) RAL-number Special features Used with Basic device ECO distribution board	10.8 Connections for external conductors	Is the panel builder's responsibility.
Meets the product standard's requirements. 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Basic device Protection class Protection class RAL-number Special features Used with Meets the product standard's requirements. It (totally insulated) Basic device 10.12 Electromagnetic compatibility. Basic device 11 (totally insulated) 12 (Special features) 13 (Special features) 14 (Potection Class II Plastic housing white (RAL 9003) Basic device ECO distribution board	10.9.2 Power-frequency electric strength	Ui = 400 V AC
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 10.11 Short-circuit rating 1 Is the panel builder's responsibility. 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Basic device Neutral-/protective conductor terminal Device support rails Functions Protection class Il (totally insulated) RAL-number Special features Used with Basic device 1P40 Protection Class II Plastic housing white (RAL 9003) Basic device ECO distribution board	10.9.3 Impulse withstand voltage	3.75 kV
provide heat dissipation data for the devices. 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Entre with: Protection class Protection class RAL-number Special features Used with Device with Provide heat dissipation data for the devices. Is the panel builder's responsibility. Meets the product standard's requirements. Meets the product standard's requirements. Basic device Neutral-/protective conductor terminal Device support rails Basic device Il (totally insulated) Special features IP40 Protection Class II Plastic housing white (RAL 9003) Basic device ECO distribution board	10.9.4 Testing of enclosures made of insulating material	Meets the product standard's requirements.
10.12 Electromagnetic compatibility 10.13 Mechanical function Additional information Fitted with: Basic device Neutral-/protective conductor terminal Device support rails Functions Protection class Il (totally insulated) RAL-number Special features Used with Is the panel builder's responsibility. Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements. Il (totally insulated) 9003 Basic device IP40 Protection Class II Plastic housing white (RAL 9003) Basic device ECO distribution board	10.10 Temperature rise	
10.13 Mechanical function Additional information Fitted with: Basic device Neutral-/protective conductor terminal Device support rails Functions Basic device Protection class II (totally insulated) RAL-number Special features IP40 Protection Class II Plastic housing white (RAL 9003) Used with Basic device ECO distribution board	10.11 Short-circuit rating	Is the panel builder's responsibility.
Additional information Fitted with: Basic device Neutral-/protective conductor terminal Device support rails Functions Frunctions 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	10.12 Electromagnetic compatibility	Is the panel builder's responsibility.
Fitted with: Basic device Neutral-/protective conductor terminal Device support rails Functions Basic device Protection class II (totally insulated) RAL-number Special features IP40 Protection Class II Plastic housing white (RAL 9003) Used with Basic device ECO distribution board	10.13 Mechanical function	Meets the product standard's requirements.
Neutral-/protective conductor terminal Device support rails Functions Basic device Protection class II (totally insulated) RAL-number Special features IP40 Protection Class II Plastic housing white (RAL 9003) Used with Basic device ECO distribution board	Additional information	
Protection class RAL-number Special features Used with II (totally insulated) 9003 IP40 Protection Class II Plastic housing white (RAL 9003) Basic device ECO distribution board	Fitted with:	Neutral-/protective conductor terminal
RAL-number 9003 Special features IP40 Protection Class II Plastic housing white (RAL 9003) Used with Basic device ECO distribution board	Functions	Basic device
Special features IP40 Protection Class II Plastic housing white (RAL 9003) Used with Basic device ECO distribution board	Protection class	II (totally insulated)
Used with Basic device ECO distribution board	RAL-number	9003
ECO distribution board	Special features	IP40 Protection Class II Plastic housing white (RAL 9003)
	Used with	ECO 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 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 width mm 0 Built-in width mm 0 Inner depth mm 0 Earthing terminal block No No Neutral terminal block No No	(eci@5515-27-14-24-05 [ACN507010])		
Width in number of modular spacings Type of covering Cover model Cover model Type of door Type of door Transparent cover/door Single Yes Signal passing door With lock Type of closure Housing material Built-in depth Built-in width Inner depth Earthing terminal block No	Mounting method		Surface mounted
Type of covering Cover model Cover model Type of door Transparent cover/door Signal passing door With lock With lock Type of closure Housing material Built-in depth Built-in height Built-in width Inner depth Earthing terminal block No	Number of rows		1
Cover model Type of door Type of door Transparent cover/door Signal passing door With lock With lock Type of closure Housing material Built-in depth Built-in width Built-i	Width in number of modular spacings		12
Type of door Transparent cover/door Signal passing door With lock Type of closure Housing material Built-in depth Built-in width Built-in width Inner depth Earthing terminal block No Single Yes No Other Housing Material Mm 70 Mm 0 10 Mm 90 Earthing terminal block No	Type of covering		Door
Transparent cover/door Signal passing door With lock With lock Type of closure Housing material Built-in depth Built-in height Built-in width Inner depth Mentral terminal block No Yes No Other Plastic Plastic mm 70 0 0 0 0 0 0 0 0 0 0 0 0	Cover model		Closed
Signal passing door With lock Type of closure Housing material Built-in depth Built-in height Built-in width Inner depth Inner depth Earthing terminal block No	Type of door		Single
With lock Type of closure Housing material Built-in depth Built-in height Built-in width Inner depth Earthing terminal block Neutral term	Transparent cover/door		Yes
Type of closure Housing material Built-in depth Built-in height Built-in width Inner depth Earthing terminal block Neutral terminal block No Other Plastic Plastic No 0 0 0 0 0 0 0 0 0 0 0 0 0	Signal passing door		No
Housing material Built-in depth Built-in height Built-in width Inner depth Earthing terminal block Neutral terminal block Housing material Plastic Plastic Plastic Plastic Po Po Po Po Po Po Po Po Po P	With lock		No
Built-in depthmm70Built-in heightmm0Built-in widthmm0Inner depthmm90Earthing terminal blockNoNoNeutral terminal blockNo	Type of closure		Other
Built-in height mm 0 Built-in width mm 0 Inner depth 90 Earthing terminal block No No	Housing material		Plastic
Built-in width mm 0 Inner depth mm 90 Earthing terminal block No Neutral terminal block No	Built-in depth	mm	70
Inner depth mm 90 Earthing terminal block No Neutral terminal block No	Built-in height	mm	0
Earthing terminal block No Neutral terminal block No	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	212
Width	mm	303
Depth	mm	98