DATASHEET - BC-0-3/54-TW-ECO



ECO Compact distribution board, surface mounted, 3-rows, 18 MU, IP40

Powering Business Worldwide*

Part no. BC-0-3/54-TW-EC0 Catalog No. 281695

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		3
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: 3 x (18 x 10) N: 3 x (18 x 10)
Equipment supplied			Basic device Device support rails Neutral-/protective conductor terminal

Technical data

General

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	W	38

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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}	W	77
C/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.

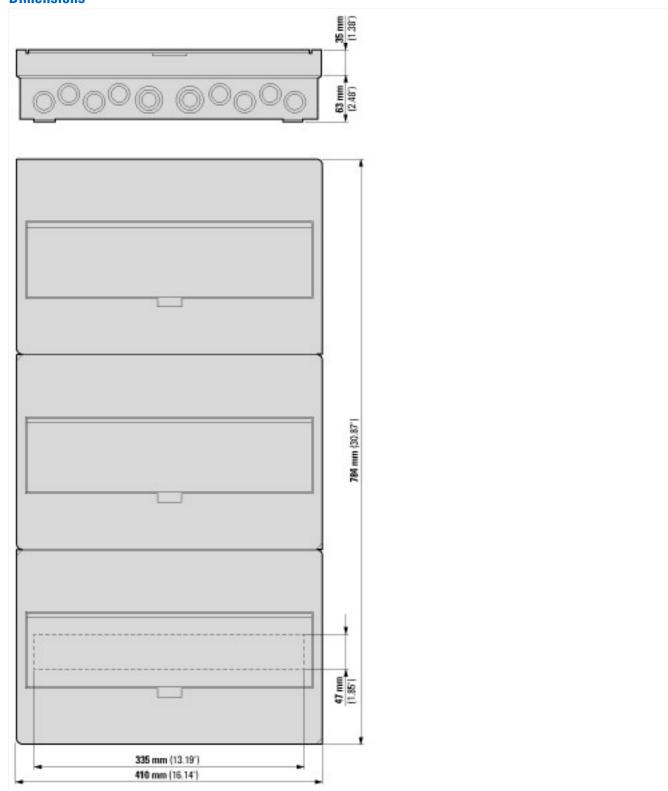
Technical data ETIM 7.0

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

Number of rows 18 Width in number of modular spacings 18 Type of cover Door Cover model Closed Transparent cover/door No Material housing Plastic Height mm 784 Width mm 410 Depth mm 98 Built-in depth mm 70 Internal depth mm 90 Vith mounting plate No No Extension possible No No Extension possible No No EMC-version No No Colour No No RAL-number No No Degree of protection (IP) White No With lock No No	(ecl@ss10.0.1-27-14-24-09 [ACN387011])		
Width in number of modular spacings 8 18 Type of cover 00° 10° Cover model 00° 10° Transparent cover/door 0 No Material housing 10° 12° Height 0 18° Width 0 18° Width 0 10° Built-in depth 0 10° Built-in depth 0 10° Internal depth 0 10° With mounting plate 0 10° With mounting plate 0 10° Extension possible 0 10° EMC-version 0 10° Colour 0 10° RAL-number 0 10° Degree of protection (IP) 10° 10° With lock 10° 10° With lock 10° 10°	Mounting method		Surface mounted (plaster)
Type of cover Cover model Cosed Transparent cover/door No No Material housing Plastic Height mm 784 Width 410 410 Depth mm 8 Built-in depth mm 70 Internal depth mm 90 DIN-rail Yes With mounting plate No Extension possible No Extension possible No EMC-version No Colour No RAL-number Withite Degree of protection (IP) Withite With lock IP40 With lock No	Number of rows		3
Cover model Closed Transparent cover/door No Material housing Plastic Height mm 784 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 No RAL-number White Degree of protection (IP) White With lock IP40 With lock No	Width in number of modular spacings		18
Transparent cover/door No Material housing Plastic Height mm 784 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 No RAL-number White Degree of protection (IP) Mo With lock IP40 Woth lock No	Type of cover		Door
Material housing Image: Plastic Height mm 784 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 Extension possible No EMC-version No Colour No RAL-number 9003 Degree of protection (IP) IP40 With lock No	Cover model		Closed
Height mm 784 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 No Colour No White RAL-number White Mo Degree of protection (IP) PMO PMO With lock IP40 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 Extension possible No EMC-version No Colour No RAL-number White Pegree of protection (IP) 9003 With lock IP40 No No	Material housing		Plastic
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 No White RAL-number 9003 9003 Degree of protection (IP) P40 P40 With lock No No	Height	mm	784
Built-in depth Internal depth Intern	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 90 Yes Yes No No No No No No White 9003 P40	Depth	mm	98
DIN-railYesWith mounting plateNoExtension possibleNoEMC-versionNoColourWhiteRAL-number9003Degree of protection (IP)IP40With lockNo	Built-in depth	mm	70
With mounting plateNoExtension possibleNoEMC-versionNoColourWhiteRAL-number9003Degree of protection (IP)IP40With lockNo	Internal depth	mm	90
Extension possibleNoEMC-versionNoColourWhiteRAL-number9003Degree of protection (IP)IP40With lockNo	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



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