



## MECC ALTE ECO38 2M/4 C-TYPE 250KVA THREEPHASE ALTERNATOR

Reference: ECO38 2M/4 C-TYPE double bearing

### MECC ALTE ECO38 2M/4 C-TYPE THREEPHASE 250KVA ALTERNATOR WILL AVR

The alternator MECC ALTE ECO38 2M/4 C-TYPE threephase is capable of delivering a power of 250KVA complete with AVR digital voltage regulator.

The robust construction of the ECO38 2M/4 alternator can withstand up to 5G in any direction and 9G vertically. Its design allows easy access to connections and components during routine maintenance checks. The mechanical design has used the most advanced FEM Techniques.

The materials used for the construction of the alternator of 250KVA structure are: FEP12 steel for the frame, C45 steel for the shaft and cast iron or pressure die-cast aluminum for the end supports: the fans are made of die-cast aluminum or fiberglass reinforced nylon, materials conforming to UL standards. The rotors are dynamically balanced according to grade 2.5 of ISO 1940-1.

In addition to the protection on the same windings, the MECC ALTE ECO38 2M/4 alternator can have a higher protection at the inlet. The standard levels are IP23 with further updates available to include input filters, IP43 and IP45: 7%. Input filters and IP43 are subject to de-rating. 20-30% de-rating applies for IP45 depending on model.

EG43 grey paint, is a high temperature insulating enamel that forms a resistant and flexible film with excellent chemical and moisture protection.

It is water and oil resistant, and also protects the windings from abrasion. It is applied by spraying a layer of coating onto the impregnated winding, or by dipping the stator into a cylinder of paint for superior treatment.

The ECO38 2M/4 of 250KVA is supplied with TOTAL+ treatment, this is a treatment that offers superior performance when the environment is really difficult, or the application is very demanding. TOTAL+ a rubbery treatment, used to replace the encapsulation of epoxy and silicone windings.

The alternator 250KVA is designed and manufactured in ISO 9001 environment. The whole series is manufactured according to the most common specifications such as CEI 2-3, IEC 34-1, EN 60034-1, VDE 0530, BS 4999-5000, NF 51.111, CAN/CSA-C22.2 No14-95-No100-95, NEMA MG 1-2011, ISO 8528-3. Other standards such as UL1446, UL 1004/4 and /B are available upon request.

#### TECHNICAL CHARACTERISTICS MECC ALTE ECO38 2M/4 C-TYPE 250KVA

Phase Type: SinglePhase / ThreePhase  
Maximum ThreePhase Power: 275KVA / 220KW  
ThreePhase Continuous Use Power: 250KVA / 200KW  
Maximum SinglePhase Power: 135KVA / 135KW  
SinglePhase Continuous Use Power: 122KVA / 122KW  
Frequency: 50 - 60 Hz  
Voltage: 230 V / 400 V  
Protection class: IP23

Alternator speed: 1500 / 1800 rpm  
 Number of poles: 4  
 Efficiency: 93.7%  
 Width: 602.6 mm  
 Length: 926 mm  
 Height: 824 mm  
 Weight: 653 Kg  
 Constant speed alternator  
 Brushless  
 Voltage regulator: DSR (AVR)

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Images and technical data are not binding.

## Technical Sheet

Phase	Single phase / Three phase
Maximum power single phase (KW)	135
Continuous power single phase (KW)	122
Maximum power single phase (KVA)	135
Continuous power single phase (KVA)	122
Maximum power three phase (KW)	220
Continuous power three phase (KW)	200
Maximum power three phase (KVA)	275
Continuous power three phase (KVA)	250
Frequency (Hz)	50 / 60
Voltage (V)	230 / 400
Engine rpm (rpm)	1500 / 1800
Poles	4
Single-phase power (KVA)	135
Three-phase power (KVA)	275
Efficiency (%)	93.7
Protection degree	IP23
Brushes	No
PMG	No
Type of alternator	Constant Speed
Voltage regulator	AVR
Weight (Kg)	653