



MECC ALTE ECO38 1S/4 C-TYPE 180KVA THREEPHASE ALTERNATOR

Reference: ECO38 1S/4 C-TYPE double bearing

MECC ALTE ECO38 1S/4 C-TYPE THREEPHASE 180KVA ALTERNATOR WILL AVR

The alternator MECC ALTE ECO38 1S/4 C-TYPE threephase is capable of delivering a power of 180KVA complete with AVR digital voltage regulator.

The robust construction of the MECC ALTE ECO38 1S/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 MECC ALTE of 180KVA 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 alternator ECO38 1S/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 alternator MECC ALTE of 180KVA 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 flexible black compound cures to a hard, durable coating, sealing copper against moisture and chemical attack. Due to its encapsulation capacity and flexibility, it is also extremely resistant to abrasion of particles as it absorbs impacts.

The alternator 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 1S/4 C-TYPE 180KVA

Phase Type: SinglePhase / ThreePhase
ThreePhase Maximum Power: 196KVA / 156. 8 KW
Threephase continuous use power: 180KVA / 144 KW
Singlephase maximum power: 95KVA / 95 KW
Singlephase continuous use power: 87KVA / 87 KW
Frequency: 50 - 60 Hz

Voltage: 230 V / 400 V
 Protection class: IP23
 Alternator speed: 1500 / 1800 rpm
 Number of poles: 4
 Efficiency: 92.6%
 Width: 602.6 mm
 Length: 856 mm
 Height: 824 mm
 Weight: 525 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)	95
Continuous power single phase (KW)	87
Maximum power single phase (KVA)	95
Continuous power single phase (KVA)	87
Maximum power three phase (KW)	156.8
Continuous power three phase (KW)	144
Maximum power three phase (KVA)	196
Continuous power three phase (KVA)	180
Frequency (Hz)	50 / 60
Voltage (V)	230 / 400
Engine rpm (rpm)	1500 / 1800
Poles	4
Single-phase power (KVA)	95
Three-phase power (KVA)	196
Efficiency (%)	92.6
Protection degree	IP23
Brushes	No
PMG	No
Type of alternator	Constant Speed
Voltage regulator	AVR
Weight (Kg)	525