



TYPE APPROVAL CERTIFICATE
No. ELE102524XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	AC Generator
<i>Type</i>	ECP34, ECO38, ECO40
<i>Applicant</i>	MECC ALTE UK LTD 6 Lands End Way LE15 6RF Oakham UNITED KINGDOM
<i>Manufacturer</i>	MECC ALTE UK LTD
<i>Place of manufacture</i>	6 Lands End Way LE15 6RF Oakham UNITED KINGDOM
<i>Reference standards</i>	IEC 60034-1; RINA Rules Part C, Chapter 2, Section 4.

Issued in **Hamburg** on **May 23, 2024**. *This Certificate is valid until* **May 22, 2029**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

TYPE APPROVAL CERTIFICATE

No. **ELE102524XG**

Enclosure - Page 1 of 1
ECP34, ECO38, ECO40

Product Description:

AC synchronous Low-Voltage Generator for marine and offshore applications.

Types of Product:

ECP34, ECO38 and ECO40

Technical Data:

Rated output:	101 kVA up to 864 kVA
Synchronous speed:	1500 RPM to 1800 RPM
Rated Voltage:	at 50/60 Hz: 380V - 690V
Rated frequency:	50 Hz, 60 Hz
Ambient temperature:	45°C
Insulation Class:	180 (H)
Type of enclosure:	IP23
No. of poles:	4

Documents:

Data Sheet: Technical Specification;

Dimension Drawings: B1451,,01 ECO38C SINGLE BEARING SHAFT; B1452,04 ECO38C TWIN BEARING SHAFT; B1700,02 SINGLE BEARING OVERALL DIMENSIONS ECO38C; B1702,02 TWIN BEARING OVERALLDIMENSIONS ECO38C; D00094,00 ECO38C TERMINAL BOX LAYOUT;

Hamburg May 23, 2024

Giuseppe Russo