



PROTOTYPE DESIGN ASSESSMENT CERTIFICATE

No. ELE249925CS

This is to certify that the product identified below is in compliance with the regulations herewith specified.

Description	Electric Motor
Type	GM, JM
Applicant	SEIPEE S.P.A. VIOTTOLO CROCE, 1 41011 Campogalliano (MO) ITALY
Reference standards	IEC 60034-1; RINA Rules Part C, Chapter 2, Section 4.

This certificate is issued on request of the Manufacturer based on the PDA certification scheme according to RINA Rules for Testing and Certification of Marine Materials and Equipment

Issued in Genoa on July 16, 2025. This Certificate is valid until July 16, 2030

RINA Services S.p.A.
Luigi Benedetti

This certificate consists of this page and 1 enclosure



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No. ELE249925CS

Enclosure - Page 1 of 2

GM, JM

Issued in Genoa on July 16, 2025. This Certificate is valid until July 16, 2030

Polyphase electric motor in cast Iron – GM:

Type:

Efficiency	IE1, IE2, IE3, IE4
Shaft Height	71 up to 400
Frame Length	S, M, L
Stator Length	a, b, c, d
Rated Voltage	220V up to 830V
Rated Power	S1 0.25kW up to 756kW
Duty Type:	S1; S2-10 min; S3,S6-20%; S6-40%, S6-60%
Synchronous Speed	600 rpm up to 3600rpm
Rated Frequency	50Hz - 60Hz or frequency converter feeder
Ambient Temperature	-25°C to +45°C; 50°C with power reduction
Thermal Class	155(F); temperature rise 130(B); 180(H); temperature rise 155(F)
Degree of protection	IP55; IP56; IP65 or IP66
Nr. Poles	2, 4, 6, 8, 10
Cooling	IC411; IC410; IC416

Spec. model for marine/offshore environments. On request optional with built-in units e.g. brakes, external fans, encoders.
All the motors have to be supplied with the rating plate containing:

- Serial number
- Manufacturer's name
- Model and type
- Power - Voltage - Current - Frequency - Speed and Power factor
- Winding insulation class and connection
- Degree of protection
- Max permissible cooling medium temperature and ambient temperature
- Performance
standard Tot.
mass

Polyphase electric motor in Aluminium - JM:

Type:

Efficiency	IE1, IE2, IE3, IE4
Shaft Height	56 up to 180
Frame Length	S, M, L
Stator Length	a, b, c, d
Rated Voltage	220V up to 830V
Rated Power	S1 0.06kW up to 36kW
Duty Type:	S1; S2-10 min; S3,S6-20%; S6-40%, S6-60%
Synchronous Speed	600 rpm up to 3600rpm
Rated Frequency	50Hz - 60Hz or frequency converter feeder
Ambient Temperature	-25°C to +45°C; 50°C with power reduction
Thermal Class	155(F); temperature rise 130(B); 180(H); temperature rise 155(F)
Degree of protection	IP55; IP56; IP65 or IP66
Nr. Poles	2, 4, 6, 8, 10
Cooling	IC411; IC410; IC416

Spec. model for marine/offshore environments. On request optional with built-in units e.g. brakes, external fans, encoders.



PROTOTYPE DESIGN ASSESSMENT CERTIFICATE

No. ELE249925CS

Enclosure - Page 2 of 2

GM - JM

All the motors have to be supplied with the rating plate containing:

- ☐ Serial number
- ☐ Manufacturer's name
- ☐ Model and type
- ☐ Power - Voltage - Current - Frequency - Speed and Power factor
- ☐ Winding insulation class and connection
- ☐ Degree of protection
- ☐ Max permissible cooling medium temperature and ambient temperature
- ☐ Performance standard
- ☐ Tot. mass

Documents:

- ☐ Test n. 014_2025 (temperature rise-test; load test; breakdown torque test; dielectric test; locked rotor test; no load test; insulation resistance)
- ☐ Test n. 015_2025 (temperature rise-test; load test; breakdown torque test; dielectric test; locked rotor test; no load test; insulation resistance)

Remarks:

All a.c. generators having rated power of 100 kVA and above, all d.c. generators having rated power of 100 kW and above, and all a.c./d.c. motors having rated power of 100 kW and above, intended for essential services are to be surveyed by the Society during testing and, if appropriate, during manufacturing.

Type tests are to be carried out on a prototype machine or on the first of a batch of machines, and routine tests carried out on subsequent machines in

accordance with the RINA Ships Rules Pt. C, Ch.2, Sec.4, tab.1 A periodic audit at the Manufacturer's workshop is to be performed every 2,5 years

Genoa July 16, 2025