

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAE0000406
Revision No:
1

This is to certify:
that the Electric Motor

with type designation(s)
JM ... , ALL EFFICIENCY IE1, IE2, IE3

issued to
SEIPEE S.p.A.
Campogalliano, MO, Italy

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Degree of protection	See Page 2
Insulation class	See Page 2
Temp. class (°C)	See Page 2
Voltage (V)	See Page 2
Power (kW)	See Page 2
Frequency (Hz)	See Page 2
Speed (RPM)	See Page 2

Issued at **Høvik** on **2025-06-25**

This Certificate is valid until **2030-06-24**.

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Maik Gagern**

for **DNV**



Digitally signed by
Schaarmann, Arne
Location: DNV SE
Hamburg, Germany

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Induction motors, Aluminium frame motors

Types: JM 56 up to 180 ALL EFFICIENCY IE1, IE2, IE3

Sizes: a, b, c, S, M, L, Sa, Sb, Sc, Ma, Mb, Mc, La, Lb, Lc
Rated voltage: 220 V up to 830 V
Rated power: S1 0,06 kW up to 36 kW
Duty Type: S1, S2-10min, S2-30min, S3, S6-20%, S6-40%, S6-60%
Synchronous speed: 600 1/min up to 3600 1/min
Rated frequency: 50 Hz, 60 Hz
Ambient temperature: 45° C
Thermal class: 155 (F), temperature rise 130 (B)
Degree of protection: IP 55, IP 56
No. Of poles: 2, 4, 6, 8, 10
Spec. Model: For marine applications / environments

Application/Limitation

This certificate is issued on the basis of DNV Class Programme DNV-CP-0338, Edition 2021-09.

Type Approval documentation

Family Certificate. Doc. As per NPS File 262.1-031131-1

Tests carried out

IEC 60034-1, 2010-02
GL Test Requirements for Electrical Machinery (VI-7-6), Edition 1999

Marking of product

Acc. to IEC 60034-1 subclause 10.2

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE

TYPE APPROVAL CERTIFICATE

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TAE0000409
Revision No:
1

This is to certify:
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GM ..., ALL EFFICIENCY IE1, IE2, IE3

issued to
SEIPEE S.p.A.
Campogalliano, MO, Italy

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

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Degree of protection	See Page 2
Insulation class	See Page 2
Temp. class (°C)	See Page 2
Voltage (V)	See Page 2
Power (kW)	See Page 2
Frequency (Hz)	See Page 2
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Product description

Induction motors, Cast iron motors

Types: GM 71 up to 400 ALL EFFICIENCY IE1, IE2, IE3

Sizes: a, b, c, S, M, L, Sa, Sb, Sc, Ma, Mb, Mc, La, Lb, Lc
Rated voltage: 220 V up to 830 V
Rated power: S1 0,25 kW up to 756 kW
Duty Type: S1, S2-10min, S2-30min, S3, S6-20%, S6-40%, S6-60%
Synchronous speed: 600 1/min up to 3600 1/min
Rated frequency: 50 Hz, 60 Hz
Ambient temperature: 45° C
Thermal class: 155 (F), temperature rise 130 (B)
Degree of protection: IP 55, IP 56
No. Of poles: 2, 4, 6, 8, 10
Spec. Model: For marine applications / environments

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