



RINA



Certificate of Design Assessment

N. ELE204103CS/CDA

This is to certify that, at request of the Applicant, design plans and data for the products listed below have been examined against applicable sections of the Rules. This certificate is not a type approval certificate or a production control certificate and does not exempt the product from being tested in accordance with applicable RINA rules and procedures for its installation on board. It will remain valid until the expiring date and will automatically become invalid in case of, either changes in the applicable Rules or changes in the product carried out without RINA approval.

DESCRIPTION

Series of Asynchronous Motors

TYPE

Standard	M3BP
Flameproof	M3JP/KP
Increased safety	M3HP
Non-sparking	M3GP
Standard	M2CA
Standard	M2FA

APPLICANT

**ABB Oy
Motors
Strombergin Puistotie 5A
FIN-65320 Vaasa
FINLAND**

RULES

Rules for the Classification of Ships – Part C Ch. 2 Sec. 4

Issued in **Genova** on **11.04.2005**

This Certificate is valid until **11.04.2010**

RINA
Andrea Cogliolo

This certificate consists of this page and 1 enclosure

RINA Società per azioni
Gruppo REGISTRO ITALIANO NAVALE

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**Enclosure to Certificate of Design Assessment
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Description and characteristics:

Low Voltage Asynchronous Motors:

Type	M3BP	M2CA	M2FA
Frame size	280-400	280-450	250-400
Rated Power (kW)	37-780	37-850	37-750
Rated Voltage (V)	220-690	220-690	220-690
Rated Frequency (Hz)	50-60	50-60	50-60
N. of poles	2-12 and multipole	2-10 and multipole	2-8 and multipole
IP	IP55, IP56, IP65, IP66	IP55, IP56	IP23

Type	M3JP / KP	M3HP	M3GP
Frame size	280-400	280-400	280-400
Rated Power (kW)	37-780	37-350	37-780
Rated Voltage (V)	220-690	220-690	220-690
Rated Frequency (Hz)	50-60	50-60	50-60
N. of poles	2-12 and multipole	2-12 and multipole	2-12 and multipole
IP	IP55, IP56, IP65, IP66	IP55, IP56, IP65, IP66	IP55, IP56, IP65, IP66
Safety Characteristic	(E)Ex d / (E)Ex de	(E)Ex e	(E)Ex nA

Documentation:

Technical documentation identified with RINA number ELE - 3833 including:

- Material specification
- Drawing and tables
- Test reports including IP test reports
- LCIE Examination Certificates

Condition for acceptance on board:

All motors are to be tested by the Manufacturer according to Part C Ch. 2 Sec. 4 of RINA rules.

All motors having rated power of 100 kW and above, intended for essential services are to be surveyed by the Society during testing unless an alternative inspection scheme is agreed by the Society with the Manufacturer whereby the attendance of the Surveyor will not be required as indicated above.

Type tests are to be carried out on a prototype motor or on the first of a batch of motor, and routine tests carried out on subsequent motors.

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