



**APPROVAL CERTIFICATE FOR  
QUALITY ASSURANCE SYSTEM**  
**품질보증제도승인증서**

**Certificate No.** : SWE04937-QA001                      **Initial Approval** : 18th September, 2001.  
**Product / Service** : Electric Motors  
**Company / Works** : ABB AB, LV Motors  
                                  SE-721 70 Vasteras, Sweden

**Approval Condition** : " See Appendix 1 & 2 "

**THIS IS TO CERTIFY** that the Quality Assurance System of the above-mentioned company / works including production methods, inspection and testing, quality control and general standards of workmanship has been audited by this Society and that the System is found to be in compliance with the requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Ch. 5 of the Guidance for Approval of Manufacturing Process and Type Approval, etc.

This Certificate is valid until 17th September, 2013 subject to periodical audit.  
 Issued at Daejeon, Korea on 16th November, 2010.



**국 선 급**  
KOREAN REGISTER OF SHIPPING

*(Signature)*

( Lee Woon-ho )

*General Manager of  
Materials and Equipment Team*

*Note : 1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.  
 2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.*

# QA System Approval Condition

Certificate No : SWE04937-QA001

Date of Issue : 16th November, 2010.

1. Type approval for electric motor is to be maintained separately from this approval.
2. This certificate is valid on condition that an annual surveillance audit for the Quality Assurance System is carried out and found to be satisfactory by the Society.
3. Tests and surveys for each electric motor are to be carried out by the manufacturer in accordance with the requirements of the Society's Rules for Classification of Steel Ships and approved manufacturer's Quality Assurance Procedure.
4. The Product Certificate issued by the manufacturer is to be forwarded to KR Copenhagen Office together with the manufacturer's test records and, if the rated power of motor is 100 kW and above, material certificate of shaft for endorsement thereon by the Surveyor.
5. The Confirmation Survey for the products certified directly by the manufacturer is to be carried out by the Surveyor of KR Copenhagen Office at least once a year.
6. Each certified electric motor is to be marked with Product Certification No., Serial No., dd.mm.y by the person in charge of Manufacturing Survey.
7. The special steel stamp supplied by the Society is to be kept by the person in charge of Manufacturing Survey.
8. In case where other organizations especially request witnessing of the test by the Surveyor or there is any problem with the quality of certified products, the Society may directly issue, with prior notice, the product certificate upon witnessing of the tests regardless of aforesated survey delegation
9. All customer complaints to products certified under this Quality Assurance System shall be reported to this Society.
10. The following documents are to be prepared by the manufacturer and made available at the request of the Surveyor of this Society.
  - Material test reports for shaft
  - Inspection reports for shop trial, overhaul and etc.
  - Documents and data for Quality Control Activity

< The End >

### Endorsement for Periodical Audit

Certificate No : SWE04937-QA001

Date of Issue : 16th November, 2010.

Anniversary Date : 17th September

This is to certify that the Quality System is considered to be fit to obtain / retain the Society's approval in accordance with Ch. 5, Sec. 2 of the Guidance for Approval of Manufacturing Process and Type Approval, Etc., and is valid until 17th September, 2011.

#### ■ Periodical/Confirmation/Occasional Audit

Periodical/Confirmation/Occasional Audit has been carried out and Quality Assurance System is considered to be fit to retain the Society's approval and is valid until

Report No. \_\_\_\_\_  
Branch(Office) : \_\_\_\_\_  
Date : \_\_\_\_\_  
Surveyor : \_\_\_\_\_

#### ■ Periodical/Confirmation/Occasional Audit

Periodical/Confirmation/Occasional Audit has been carried out and Quality Assurance System is considered to be fit to retain the Society's approval and is valid until

Report No. \_\_\_\_\_  
Branch(Office) : \_\_\_\_\_  
Date : \_\_\_\_\_  
Surveyor : \_\_\_\_\_

#### ■ Periodical/Confirmation/Occasional Audit

Periodical/Confirmation/Occasional Audit has been carried out and Quality Assurance System is considered to be fit to retain the Society's approval and is valid until

Report No. \_\_\_\_\_  
Branch(Office) : \_\_\_\_\_  
Date : \_\_\_\_\_  
Surveyor : \_\_\_\_\_

#### ■ Periodical/Confirmation/Occasional Audit

Periodical/Confirmation/Occasional Audit has been carried out and Quality Assurance System is considered to be fit to retain the Society's approval and is valid until

Report No. \_\_\_\_\_  
Branch(Office) : \_\_\_\_\_  
Date : \_\_\_\_\_  
Surveyor : \_\_\_\_\_

Note : The approval will be automatically suspended and the Certificate become invalid if not endorsed annually within 3 months after the anniversary date of this Certificate