



CERTIFICATE NUMBER

08-LD375707-PDA

DATE

02 October 2008

ABS TECHNICAL OFFICE

London Engineering Department

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
ABB AB

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Motor Controller

MODEL: PST30, PST37, PST44, PST50, PST60, PST72, PST85, PST105, PST142, PST175, PST210, PST250, PST300

ABS RULE: Steel Vessel Rules (2008) 1-1-4/7.7, 4-8-3/1.7, 4-8-3/1.17, 4-8-3/5.7; MODU Rules (2008) 4-3-1/11, 4-3-1/17, 4-3-4/7.17

OTHER STANDARD: UL508; IEC 60947-4-2, EMC Directive 89/336/EEC by Article 10.2;

AMERICAN BUREAU OF SHIPPING

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Product: Motor Controller
Model: PST30, PST37, PST44, PST50, PST60, PST72, PST85, PST105, PST142, PST175, PST210, PST250, PST300

Intended Service:

Soft start and soft stop of squirrel cage motors.

Description:

The PST softstarter is a microprocessor-based unit designed for soft start and stop of induction motors. It has several motor protection features as standard.

Ratings:

380-415VAC 50/60Hz, 15kW to 257kW dependent on model and configuration, 480VAC 50/60Hz, 20HP to 400HP dependent on model and configuration, 600VAC 50/60Hz, 25HP to 500HP dependent on model and configuration. Ambient temperature: 40C. For ambient temperatures between 40C and 50C the unit is to be de-rated by 0.8% for every 1C above 40C. See attachment for further details.

Service Restrictions:

Unit certification is required for soft starters of 100kW (135HP) and over for essential services and for soft starters of 100kW (135HP) and over for cargo and vapour handling services on LNG carriers as per 4-8-3/1.5 of the SVR. Unit certification is required for soft starters for essential or emergency services and for soft starters of 100kW (135HP) and over as per 4-3-4/7.3.1(c) of the MODU Rules. Equipment shall be located inside suitable enclosures to meet the requirements of 4-8-3/Table 2 of the Rules. A circuit disconnecting device as per 4-8-3/5.7.2 of the Rules shall be provided for each soft starter.

Comments:

Not Applicable

Notes/Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product. Certificates & Reports: ETL SEMKO SE 37226, 37250, 37254, TCF 61324 T1, T2, T3, UL File E161428 Vol 1, Sections 14/15/16/17

Term of Validity:

This Design Assessment Certificate number 08-LD375707-PDA, dated 02/Oct/2008 will expire on 01/Oct/2013 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2009, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

STANDARDS**ABS Rules:**

2008 Steel Vessel Rules 1-1-4/7.7, 4-8-3/1.7, 4-8-3/1.17 & /5.7; MODU 4-3-1/11 & /17, 4-3-4/7.17

National:

UL508

International:

IEC 60947-4-2, EMC Directive 89/336/EEC by Article 10.2

