



CERTIFICATE NUMBER

04-LD469006-PDA

DATE

22 November 2004

ABS TECHNICAL OFFICE

London Ship Engineering

CERTIFICATE OF Design Assessment

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

VAMP Ltd

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 for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Relays

MODEL: VAMP 200-series Protection and monitoring Relays
Type Nos: VAMP210/ VAMP230/ VAMP245/ VAMP255/ VAMP260/ VAMP265

ABS RULE: 2004 Steel Vessel Rules 1-1-4/3.7 , 4-8-2/9.11, 4-8-3/1.7 & 1.9 and Table 5, 4-8-5/3.5

OTHER STANDARD: IEC 60945 (relevant sections);

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont

Engineering Type Approval Co-ordinator

VAMP Ltd

Runsorintie 7,

Vaasa

65380

Finland

Telephone: +358 6 2121 100

Fax: +358 6 2121 105

Product: Relays**Model: VAMP 200-series Protection and monitoring Relays**
Type Nos: VAMP210/ VAMP230/ VAMP245/ VAMP255/ VAMP260/ VAMP265**Intended Service:**

The protection relays of the VAMP 200-Series are used for the selective measurement, monitoring and protection functions in power system distribution on industrial, marine and offshore installations.

Description:

The measurement functions cover voltages, currents, frequency, power, energy, harmonics etc. which can be read via standard communication protocols to provide supervisory and control functions.

Ratings:

Rated Voltage: 40-265 V ac, 18-36 V dc

Rated Frequency: 50/60 Hz

Service Restrictions:

Unit Certification is not required for this product.

Comments:

This equipment is regarded as "Shelf Product", and no certification before delivery is required. They are designed for switchboard and control station installation.

Approval documentation: SGS Test report 228815

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 04-LD469006-PDA, dated 22/Nov/2004. This PDA Certificate expires Nov of 2009. It will remain valid for the 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

STANDARDS**ABS Rules:**

2004 Steel Vessel Rules 1-1-4/3.7, 4-8-2/9.11, 4-8-3/1.7 & 1.9 and Table 5, 4-8-5/3.5

International:

IEC 60945 (relevant sections)

