



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER Schneider Electric Power Drives GmbH
Ruthnergasse 1
A-1210 Wien
Austria

DESCRIPTION Frequency Converters for variable speed drives

TYPE Altivar 61 Plus-Marine⁽¹⁾
Altivar 71 Plus-Marine⁽²⁾

ATV ①②③④⑤⑥⑦

- ① Product line: 61, 71
- ② Drive Systems: E
- ③ Marine Design: M
- ④ Protection Degree: A5⁽¹⁰⁾ ⁽²⁰⁾, air cooled with internal water cooling
L4⁽³⁰⁾, L5, S5 air cooled control panel, water cooled power part
- ⑤ Power: C50, C63, C71, C80⁽²⁰⁾, C90, M10⁽¹⁰⁾, M11, M12, M13, M14, M15, M18, M20, M21⁽³⁰⁾, M24
- ⑥ Mains Voltage: N4, Y,
- ⑦ Low harmonic: H ⁽¹⁰⁾ ⁽²⁰⁾ ⁽³⁰⁾

APPLICATION Marine and offshore applications for use in environmental categories ENV1 and ENV2, as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2002.

Certificate No. 12/20003 (E2)

Issue Date 17 January 2018

Expiry Date 01 February 2022

Sheet 1 of 2

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Hamburg Technical Support Office



Lloyd's Register EMEA



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STANDARD

Manufacturer's specification

RATINGS

Temperature: up to 45°C
Power: (10) = 1000kW
(20) = 800kW
(30) = 2100kW

Nominal
Output current ratings @ 45°C: (1) = 840A to 2430A
Output current ratings @ 45°C: (2) = 675A to 2200A

OTHER CONDITIONS

The installation requirements as found in the "Altivar 61 Plus-Marine Configuration Guide" and "Altivar 71 Plus-Marine Configuration Guide" are to be considered.

Systems comprising the components described above are subject to a separate plan appraisal according to applicable Lloyd's Register Rules and Regulations when installed on LR classed vessels.

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 36371-18 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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