



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.

Manufacturer	Nidec Control Techniques Limited
Address	Head Office: The Gro, Pool Road, Newtown, Powys, SY16 3BE United Kingdom
Place of Production	Control Techniques Drives Ltd, 79 Mochdre Industrial Estate, Mochdre, Powys, Wales SY16 4LE Kinetek de Mexico, S. de R.L. de C.V. Av. Infiniti #6001 Parque Industrial Milenium, Apodaca Nuevo Leon 66600, Mexico Kinetic De Mexico, S.de R.L.de Leroy Somer Electro-Technique (Fuzhou) Co., Ltd, 1st Floor Machinery Building EVOC Science & Technology Park, No.11 West Gaoxin Road Guangming District, Shenzhen Guangdong 518000, China
Type	Variable Speed Drives
Description	Variable speed controller / Frequency converters for asynchronous motor. For use in marine and offshore applications.
Trade Name	For use in the marine and offshore in environmental category ENV1 in accordance with Lloyds Register Test Specification No 1
Application	Unidrive M600,M608, M700, M701 & M702, M708, M709. Commander C200 and C300
Specified Standard	IEC 61800-5-1 (safety), IEC 61800-3 (EMC).

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Electrical & Control - Senior Specialist to
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A member of the Lloyd's Register group

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Ratings

Supply voltage range: 380 - 480 V/ 500 - 690 V, 50/60 Hz
Voltage variation: $\pm 10\%$
Frequency variation: $\pm 10\%$
Output frequency: 0 - 599 Hz up to 37 kW ranges, 0 - 500 Hz for the other.
Temperature range in operation: + 5 to +45 °C
Protection degree: IP20
Temperature class: A
Vibration class: A
Humidity class: A
EMC class: IEC 61800-3. To be used on EMC class A locations

Other Conditions

The products are capable of operating from -10°C up to 55°C , in a pollution degree 2 environment. The products are Open Type as supplied.
They must be enclosed in a suitable enclosure by the system builder.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR25132168TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.