

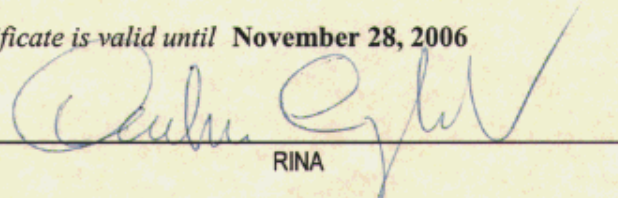
TYPE APPROVAL CERTIFICATE
No. ELE/73501CS1



This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	FREQUENCY CONVERTERS
<i>Type</i>	Series VLT 5000 ; VLT 6000
<i>Applicant</i>	DANFOSS DRIVERS A/S
	Ulsnaes 1 - 6300 GRAASTEN
	DENMARK
<i>Manufacturer</i>	DANFOSS DRIVERS A/S
<i>Place of manufacture</i>	Ulsnaes 1 - 6300 GRAASTEN
	DENMARK
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1

Issued in **Genoa** *on* **November 28, 2001.** *This Certificate is valid until* **November 28, 2006**


RINA

Andrea Cogliolo

This certificate consists of this page and 1 enclosure





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Enclosure - Page 1 of 1

Series VLT 5000 ; VLT 6000

Materials / Components

Frequency converters for variable speed controller of asynchronous motors, having the features listed below.

- Supply voltage range: 200-240; 380-500 V - 50-60 Hz.
- Input voltage supply $\pm 10\%$.
- Frequency input: $\pm 10\%$.
- Output frequency range: 0-1000 Hz.
- Operational temperature range: 0-40 °C.

TYPE	VOLTAGE SUPPLY (Vin)	MOTOR RATING (KW)
VLT 5001	200-240 ; 380 - 460/500	0,75
VLT 5002/6002	200-240 ; 380 - 460/500	1,1
VLT 5003/6003	200-240 ; 380 - 460/500	1,5
VLT 5004/6004	200-240 ; 380 - 460/500	2,2
VLT 5005/6005	200-240 ; 380 - 460/500	3,0
VLT 5006/6006	380 - 460/500	4,0 (3,7Kw with Vin=200-240 V)
VLT 5008/6008	200-240 ; 380 - 460/500	5,5
VLT 5011/6011	200-240 ; 380 - 460/500	7,5
VLT 5016/6016/6022	200-240 ; 380 - 460/500	11-11-15
VLT 5022/6022	200-240 ; 380 - 460/500	15/18,5
VLT 5027/6032	200-240 ; 380 - 460/500	18,5-22
VLT 5032/6042	380 - 460/500	22-30
VLT 5042/6052	380 - 460/500	30-37
VLT 5052/6062	380 - 460/500	37-45

Reference documents

Technical specifications No. 175R0163 (No. 3 binders), stamped by RINA on 26 November 2001, including:

- user's manuals
- test-reports concerning the tests carried out
- drawings, schematic diagrams and technical features.

Remarks

Apparatus to be installed according to the instructions given by the manufacturer.

Drawings, concerning essential services using the components listed on this certificate, are to be submitted for approval.

Genoa November 28, 2001