

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	ABB OY
Address	Hiomotie 13, FI-00380 Helsinki, Finland
Type	Electronic Frequency Convertor
Description	Frequency converter ACS880-04
Trade Name	ACS880-04; refer to Appendix for details
Application	Marine, offshore and industrial applications for use in environmental categories ENV1 and ENV2 (for radiated and conducted emission suitable for special power distribution zones only) as defined in Lloyd's Register Type Approval System, Test Specification No. 1: 2013
Specified Standard	IEC 61800-5-1:2007 IACS E10 Rev.6
Ratings	Refer to Appendix for details
Other Conditions	The complete installation and function is subject to separate plan appraisal according applicable Rules and Regulations, when installed on LR classed vessels. Converters used for essential or emergency services and rated above 100kW to be manufactured and tested in compliance with LR Rules and

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Regulations.

If used in marine and offshore applications the equipment is to be installed in metal enclosures and installation requirements according ABB Hardware Manual to be fulfilled.

The type selection has to be according ABB selection guide.

The temperature range in operation is up to 40 °C. For 40- 55 °C with current derating of 1%/1°C.

Equipment has to comply with IACS E10 Rev.7 when intended to be installed on ships contracted for construction on or after 1st January 2022.

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 No. DAD HTS/ETS 40031-20/AHB/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Appendix

TYPE

Type	Article No.	Frame Size	Power Rating Normal Load [kW]	Voltage [V]	Current Rating at 45°C IN [A]
SW -Version: AINLX v3.10.x.x					
ACS880-04-3	ACS880-04-505A-3	R10	250	400	480
+ C132	ACS880-04-585A-3	R10	315	400	556
	ACS880-04-650A-3	R10	355	400	621
	ACS880-04-725A-3	R11	355	400	689
	ACS880-04-820A-3	R11	400	400	779
	ACS880-04-880A-3	R11	450	400	836
SW -Version: AINLX v3.10.x.x					
ACS880-04-5	ACS880-04-460A-5	R10	250	500	437
+ C132	ACS880-04-503A-5	R10	315	500	478
	ACS880-04-583A-5	R10	355	500	554
	ACS880-04-635A-5	R10	400	500	603
	ACS880-04-715A-5	R11	450	500	679
	ACS880-04-820A-5	R11	500	500	779
	ACS880-04-880A-5	R11	560	500	836
SW -Version: AINLX v3.10.x.x					
ACS880-04-7	ACS880-04-330A-7	R10	250	690	314
+ C132	ACS880-04-370A-7	R10	315	690	352
	ACS880-04-430A-7	R10	400	690	409
	ACS880-04-425A-7	R11	400	690	409
	ACS880-04-470A-7	R11	400	690	447
	ACS880-04-522A-7	R11	450	690	496
	ACS880-04-590A-7	R11	500	690	561
	ACS880-04-650A-7	R11	560	690	618
	ACS880-04-721A-7	R11	630	690	685