



## 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.

<b>Manufacturer</b>	<b>ABB OY</b>
<b>Address</b>	Hiomotie 13, FI-00380 Helsinki, Finland
<b>Place of Production</b>	ABB OY Hiomotie 13, Helsinki, 00381, Finland
<b>Place of Production</b>	ABB Beijing Drive Systems Co.,Ltd No.1,Block D,A-10,Jiuxianqiao Beilu, Chaoyang Dist, Beijing, 100015, China
<b>Type</b>	Electronic Frequency Convertor
<b>Description</b>	Frequency converter ACS880-04 For detailed product description, pls. refer to appendix.
<b>Trade Name</b>	ACS880-04
<b>Application</b>	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.
<b>Specified Standard</b>	IEC 61800-5-1: 2007

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

**Matthias Karg**

Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group

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## Type Approval Certificate

IACS UR E10 Rev. 6 / 2014

### Ratings

For detailed ratings, pls. refer to appendix.

### 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 100 kW to be manufactured and tested in compliance with LR Rules and 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 must comply with IACS UR E10 Rev. 8/2021 when intended to be installed on ships contracted for construction on or after 1st January 2022.

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.

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.

### Previous Version:

This certificate supersedes certificate number LR2003925TA issued on



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## Type Approval Certificate

14 September 2020 which is hereby cancelled.

The Design Appraisal Document HPC1562060-22/MK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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## Appendix

### RATINGS

Type	Article No.	Frame Size	Power Rating Normal Load [kW]	Voltage [V]	Current Rating at 45 °C [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