



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 | Drives, Hiomotie 13, Helsinki, 00381, Finland |
| Place of Production | ABB OY Drives, Hiomotie 13, Helsinki, 00381, Finland |
| Place of Production | ABB Beijing Drive Systems Co.,Ltd No.1,Block D,A-10,Jiuxianqiao Beilu, Chaoyang Dist, Beijing, 100015, China |
| Type | Electronic Frequency Convertor |
| Description | ACS880-01, air-cooled industrial single drive For detailed product description, pls. refer to appendix. |
| Trade Name | ACS880-01 |
| Application | Marine, offshore and industrial applications for use in environmental categories ENV1 and ENV2 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2013, for installations in special power distribution zones in accordance with IEC 60533. |
| Specified Standard | IEC 61800-5-1: 2007 (2nd Edition) |

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

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A member of the Lloyd's Register group

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Ratings

Power range: 0.55 to 250 kW
Degrees of protection: IP21 or IP20 / IP55 as option
Voltage classes of:
2 = 208 to 240 V
3 = 380 to 415 V
4 = 380 to 480 V
5 = 380 to 500 V
7 = 525 to 690 V

Other Conditions

For systems consisting of the listed components the final functional arrangement and application software are to comply with appropriate Lloyd's Register Rules and Regulations and shall be subject to project related Plan Approval Process, when installed on LR classed vessels. Documents and drawings for the actual application are to be provided according relevant LR Rules and Regulations.

The converter is to be installed in special distribution zone in accordance with IEC 60533, provided measures are taken to attenuate these effects on the distribution system.

The manufacturer's air temperature derating table is to be considered.

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 LR2002709TA-02 issued on



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24 October 2022 which is hereby cancelled.

The Design Appraisal Document HPC1762196-23/MK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

DESCRIPTION

Air-cooled Industrial Single Drive ACS880-01-XxxXA-Y + C132
consisting of the following types:

-04A6-2; -06A6-2; -07A5-2; -10A6-2; -16A8-2; -24A3-2; -031A-2; -046A-2;
-061A-2; -075A-2; -087A-2; -115A-2; -145A-2; -170A-2; -206A-2; -274A-2;
-02A4-3; -03A3-3; -04A0-3; -05A6-3; -07A2-3; -09A4-3; -12A6-3; -017A-3;
-025A-3; -032A-3; -038A-3; -045A-3; -061A-3; -072A-3; -087A-3; -105A-3;
-145A-3; -169A-3; -206A-3; -246A-3; -293A-3; -363A-3; -430A-3;
-02A0-4; -02A8-4; -03A2-4; -04A6-4; -04A9-4; -07A2-4; -10A4-4; -013A-4;
-019A-4; -026A-4; -032A-4; -038A-4; -049A-4; -062A-4; -073A-4; -091A-4;
-118A-4; -148A-4; -171A-4; -228A-4; -247A-4; -343A-4; -393A-4
-02A1-5; -03A0-5; -03A4-5; -04A8-5; -05A2-5; -07A6-5; -11A0-5; -014A-5;
-021A-5; -027A-5; -034A-5; -040A-A; -052A-5; -065A-5; -077A-5; -096A-5;
-124A-5; -156A-5; -180A-5; -240A-5; -260A-5; -302A-5; -361A-5; -414A-5;
-07A3-7; -07A4-7 -09A8-7; -09A9-7; -14A2-7; -14A3-7 -018A-7; -019A-7;
-022A-7; -023A-7; -026A-7; -027A-7; -035A-7; -042A-7; -049A-7; -061A-7;
-084A-7; -098A-7; -119A-7; -142A-7; -174A-7; -210A-7; -271A-7

ZINT-271/-594/-595/-794/-795 (main circuit interface and power supply board)