



# NIPPON KAIJI KYOKAI

## TYPE APPROVAL CERTIFICATE FOR AUTOMATIC DEVICES AND EQUIPMENT

Certificate No. TA20468M

**This is to certify** that the undernoted product(s) has/have been approved in accordance with the requirements specified in Chapter 1, Part 7 of “Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use” and the relevant Society's Rules.

This certificate is issued to

Manufacturer: **ABB Oy Drives Finland**  
Place of Manufacturing: **P. O. Box 184, Hiomotie13, FIN-00381 Helsinki, Finland**  
Product description: **Frequency Converter**  
Model: **ACS880-01-XxXA-Y+ZzzZ Industrial Single Drive**

Approval No.: **15A016**  
Valid until: **7 May 2025**

This certificate is subject to the conditions specified in the attached sheet(s).

Issued at Tokyo on 8 May 2020.

T. Shimada  
General Manager  
Machinery Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.

**Specification & documents:**

1. Particulars:

- Power range: 0.55kW to 250kW
- Power supply: 240V (-2), 380V to 415V (-3), 440V to 480V (-4),  
380V to 500V (-5) and 525V to 690V (-7)

2. Components and reference drawings:

Component	Drawing
ACS880-01-04A6-2; -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; -02A1-5; -03A0-5; -03A4-5; -04A8-5; -05A2-5; -07A6-5; -11A0-5; -014A-5; -021A-5; -027A-5; -034A-5; -040A-5; -052A-5; -065A-5; -077A-5; -096A-5; -124A-5; -156A-5; -180A-5; -240A-5; -260A-5; -0302A-5; -361A-5; -414A-5; -07A3-7; -09A8-7; -14A2-7; -018A-7; -022A-7; -026A-7; -035A-7; -042A-7; -049A-7; -061A-7; -084A-7; -098A-7; -119A-7; -142A-7; -174A-7; -210A-7; -271A-7; -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; -07A4-7; -09A9-7; -14A3-7; -019A-7; -023A-7; -027A-7	3AUA0000078093 [English] (ACS880-01 hardware manual) 3AFE 002241 (Software Life Cycle Model Process Description) 00600778_A (Quality Control plan ACS880 S1-S6) 00600773_A (Quality Control plan ACS880 R7-R9) 3AFE 002242 (Software Development Process description)

- To be continued -

## 3. Documentation and Test Reports:

3AXD00000596052,	3AXD10000080707,	3AXD00000596052,	3AXD10000024136,
3AXD10000036352,	3AXD10000042711,	3AXD10000266957,	3AXD10000085313,
3AXD10000096222,	3AXD10000254791,	3AXD10000254793,	3AXD10000104406,
3AXD10000104408,	3AXD10000104413,	3AXD10000104414,	3AXD10000021817,
3AXD10000021818,	3AXD10000021819,	3AXD10000040042,	3AXD10000027621,
3AXD10000038457,	3AXD10000027230,	3AXD10000041041,	3AXD10000041059,
3AXD10000239342,	3AXD10000021814,	3AXD10000021815,	3AXD10000021816,
3AXD10000042355,	3AXD10000027146,	3AXD10000081248,	3AXD10000039108,
3AXD10000085546,	3AXD10000027230,	3AXD10000071397,	3AXD10000040025,
3AXD10000067104,	3AXD10000041150,	3AXD10000062989,	3AXD10000024768,
3AXD10000024767,	3AXD10000024769,	3AXD10000028559,	3AXD10000026305,
3AXD10000099637,	3AXD10000029807,	3AXD10000027073,	3AXD10000099638,
3AXD10000295204,	3AXD10000242583,	3AXD10000027195,	3AXD10000035090,
3AXD10000064941,	3AXD10000027032,	3AXD10000064202,	3AXD10000041436,
3AXD10000066610,	3AXD10000040403,	3AXD10000058319,	3AXD10000021889,
3AXD10000021890,	3AXD10000021891,	3AXD10000027195,	3AXD10000035090,
3AXD10000064941,	3AXD10000027032,	3AXD10000075140,	3AXD10000026408,
3AXD10000064202,	3AXD10000066610,	3AXD10000040403,	3AXD10000244185,
3AXD10000021409,	3AXD10000099854,	3AXD10000098356,	3AXD10000064204,
3AXD10000046584,	3AXD10000046584,	3AXD10000088411,	3AXD10000064203,
3AXD10000064205,	3AXD10000052740,	3AXD10000063852,	3AXD10000320956,
3AXD10000295825,	3AXD10000277010,	3AXD10000241957,	3AXD10000284805,
3AXD10000241958,	3AXD10000292422,	3AXD10000067142,	3AXD10000067141,
3AXD10000046584,	3AXD10000067141,	3AXD10000277010,	3AXD10000046590,
3AXD10000067141,	3AXD10000046573,	3AXD10000098355,	3AXD10000315812,
3AXD10000021892,	3AXD10000021893,	3AXD10000021894,	3AXD10000027195,
3AXD10000035090,	3AXD10000087746,	3AXD10000027032,	3AXD10000075140,
3AXD10000026406,	3AXD10000058318,	3AXD10000047200,	3AXD10000057842,
3AXD10000040403,	3AXD10000057483,	3AXD1000024485,	3AXD10000263498
3AXD10000263499,	3AXD10000263500,	3AXD10000665893,	3AXD10000611661,
3AXD10000508543,	3AXD10000580488,	3AXD10000637143,	3AXD10000619906,
3AXD10000613080,	3AXD10000619912,	3AXD10000603369,	3AXD10000614135,
3AXD10000603111,	3AXD10000736788,	3AXD10000736792,	3AXD10001203520,
3AXD10001203800,	3AXD10001203799,	3AXD10001203817,	3AXD10001203831,
3AXD10001203832,	3AXD10001203821,	3AXD10001203824,	3AXD10001203833

**Test items & approval conditions:**

1. Test items: (Applied testing items are marked with X.)

ENVIRONMENTAL TESTS (IACS UR E10 Rev.7 basis)		Mark
External examination		X
Operation test and performance test		X
Electric power supply failure test		X
Power supply fluctuation test	Electric	X
	Pneumatic and Hydraulic	--
Insulation resistance test		X
High voltage test		X
Pressure test (Pneumatic and Hydraulic)		--
Dry heat test (Temperature 40°C × 120 hours)		X
Damp heat test (Temperature 40°C)		X
Vibration test (Acceleration ±0.7g)		X
Inclination test		--
Cold test (Temperature -15°C)		X
Salt mist test		--
Electrostatic discharge immunity test		X
Radiated radio frequency immunity test		X
Conducted low frequency immunity test		X
Conducted high frequency immunity test		X
Burst / Fast transient immunity test		X
Surge immunity test		X
Radiated emission test		X
Conducted emission test		X
Flame retardant test		--

2. Approval condition:

- (1) The product is not allowed to be installed in the bridge and on open decks.
- (2) In case ambient temperature is more than 40°C, ambient temperature derating shall be considered.

- The End -