

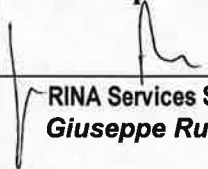


TYPE APPROVAL CERTIFICATE
No. ELE369418XG

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>	ACS800-01+C132 Drives; ACS800-U1+C132 Drives; ACS800-04+C132 Drive Modules; ACS800-U4+C132 Drive Modules
<i>Applicant</i>	ABB OY BAU DRIVES PO BOX 184 FIN 00381 HELSINKI FINLAND
<i>Manufacturer</i>	ABB OY BAU DRIVES
<i>Place of manufacture</i>	PO BOX 184 FIN 00381 HELSINKI FINLAND
<i>Reference standards</i>	RINA Rules Pt. C, Ch. 3, Sec. 6

Issued in **HAMBURG** on **April 17, 2019**. *This Certificate is valid until* **April 16, 2024**



RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure



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Materials/Components.

Variable speed drives for 3-phases motors having the features listed below.

ACS800-01/U1, single drives, 0,55 to 160 kW is wall mounted and suitable direct to wall mounting.

ACS800-04/U4, drive modules, 0,55 to 160 kW is intended for cabinet installation.

- Rated frequency: from 48 to 63 Hz.
- Power factor: 0,98 (fundamental).
- Power factor: from 0,93 to 0,95 (total).
- Frequency control: from 0 to + 300 Hz.
- Frequency control: from 0 to + 120 Hz with du/dt filter.
- Degree of protection: IP 21 (standard) and IP 55 (optional).
- Obligatory option: + C 132.

The derated values for the ACS800-01/U1/04/U4+C132 at 45°C (113°F)

- Rated input voltage: from 380 to 415 V +/- 10% - Rated output voltage : from 380 to 415 V +/- 10%.
- The output data are intended for input voltage $U_i = 400$ V.

ACS800-01/U1 size ACS800-04/U4 size	MAIN SUPPLY (V)	FRAME SIZE	NOMINAL RATINGS (*)	
			I cont. max (A)	I max (A)
-0003-3	380-415	R2	4,8	6,5
-0004-3	380-415	R2	6,2	8,2
-0005-3	380-415	R2	8,1	10,8
-0006-3	380-415	R2	10,4	13,8
-0009-3	380-415	R2	13,2	17,6
-0011-3	380-415	R3	18	24
-0016-3	380-415	R3	24	32
-0020-3	380-415	R3	32	46
-0023-3**	380-315	R3	38	43
-0025-3	380-415	R4	42	62
-0030-3	380-415	R4	52	72
-0035-3**	380-415	R4	56	72
-0040-3	380-415	R5	68	86
-0050-3	380-415	R5	82	112
-0060-3	380-415	R5	98	138
-0070-3	380-415	R6	134	164
-0075-3	380-415	R5	137	170
-0100-3	380-415	R6	158	202
-0120-3	380-415	R6	192	282
-0135-3	380-415	R6	214	326
-0165-3	380-415	R6	247	326
-0205-3	380-415	R6	276	351

(*) I cont. max: Rated current available continuously without overload capability at 45 °C.

I max : Maximum output current available for at least 10 seconds at start.
Longer if drive temperature allows.

(**) Only ACS800-04/U4

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000



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ACS800-01/U1/04/U4+C132

- Rated input voltage: from 380 to 500 V +- 10% - Rated output voltage : from 380 to 500 V +- 10%.
- The output data are intended for input voltage $U_i = 500$ V.

ACS800-01/U1 size ACS800-04/U4 size	MAIN SUPPLY (V)	FRAME SIZE	NOMINAL RATINGS (*)	
			I cont. max (A)	I max (A)
-0004-5	380-500	R2	4,7	6,5
-0005-5	380-500	R2	5,9	8,2
-0006-5	380-500	R2	7,7	10,8
-0009-5	380-500	R2	10	13,8
-0011-5	380-500	R2	12,5	17,6
-0016-5	380-500	R3	18,5	24
-0020-5	380-500	R3	24	32
-0025-5	380-500	R3	32	46
-0028-5**	380-500	R3	36	46
-0030-5	380-500	R4	40	62
-0040-5	380-500	R4	46	72
-0045-5**	380-500	R4	53	72
-0050-5	380-500	R5	62	86
-0060-5	380-500	R5	75	112
-0070-5	380-500	R5	92	138
-0100-5	380-500	R6	149	164
-0105-5	380-500	R5	137	170
-0120-5	380-500	R6	149	202
-0140-5	380-500	R6	171	282
-0165-5	380-500	R6	214	326
-0205-5	380-500	R6	247	326
-0255-5	380-500	R6	276	351

(*) I cont. max: Rated current available continuously without overload capability at 45 °C.

I max : Maximum output current available for at least 10 seconds at start.

Longer if drive temperature allows.

(**) Only ACS800-04/U4



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ACS800-01/U1/04/U4+C132

- Rated output voltage: from 525 to 690 V +/- 10% - Rated input voltage : from 525 to 690 V +/- 10%.
- The output data are intended for input voltage $U_i = 690$ V.

ACS800-01/U1 size ACS800-04/U4 size	MAIN SUPPLY (V)	FRAME SIZE	NOMINAL RATINGS (*)	
			I cont. max (A)	I max (A)
-0011-7	525-690	R4	12	14
-0016-7	525-690	R4	16,5	19
-0020-7	525-690	R4	21	28
-0025-7	525-690	R4	24	38
-0030-7	525-690	R4	31	44
-0040-7	525-690	R4	34	54
-0050-7	525-690	R5	48	68
-0060-7	525-690	R5	54	84
-0070-7	525-690	R6	75	104
-0100-7	525-690	R6	88	124
-0120-7	525-690	R6	107	172
-0145-7	525-690	R6	127	245
-0175-7	525-690	R6	157	245
-0205-7	525-690	R6	180	245

(*) I cont. max: Rated current available continuously without overload capability at 45 °C.

I max : Maximum output current available for at least 10 seconds at start.
Longer if drive temperature allows.

Reference documents.

- ABB drives for marine applications catalogue, 3AFE68326753 REV D EN 16.9.2008
- ACS800-01/U1 Hardware Manual 0.55 to 200 kW (0.75 to 150 HP) 3AFE64382101 (English)
- ACS800-01/U1/04/U4 Marine Supplement 0.55 to 160 kW (0.75 to 200 HP) 3AFE68291275 (English)
- ACS800-04/U4 Hardware Manual 0.55 to 200 kW (0.75 to 200 HP) 3AFE68372984 (English)
- ABB OY Drives Marine type approval ACS800-01 + C132 (reports about the tests performed - two binder).
- ABB OY Test report Documentation POWEX_report.zip, dated 25.05.2012

Remarks

- The apparatus listed on this Certificate are intended as a component.
- The drawings concerning each installation on board a ship are prior to be submitted for approval.
- This Certificate covers only hardware and basic software of the listed apparatus.
- For essential application of the listed apparatus is the OPTION CODE + C132 required.
- Installation of the apparatus, as per manufacturer's instructions.

This certificate replace the previous certificate ELE032312XG

HAMBURG April 17, 2019



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