




TYPE APPROVAL CERTIFICATE
No. **ELE015920XP**

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>	Variable speed drives for A.C motors
<i>Type</i>	ACS880-04 Series
<i>Applicant</i>	ABB OY - MANAGEMENT AND PROJECTS HIOMOTIE 13 HELSINKI FINLAND
<i>Manufacturer</i>	ABB OY - MANAGEMENT AND PROJECTS
<i>Place of manufacture</i>	HIOMOTIE 13 HELSINKI FINLAND
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **GDANSK** on **July 22, 2020**. This Certificate is valid until **April 1, 2025**


RINA Services S.p.A.
Jaroslaw Kondracki

This certificate consists of this page and 1 enclosure



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ACS880-04 Series

Wall-mounted drives, AC880-04 Series (IP00 , IP20)

Un= 400V (range 380 to 415V) The power ratings are valid at nominal voltage 400 V									
Input rating	Max current	Nominal use		Light-overload use		Heavy-duty use		Type designation	Frame size
		IN	PN	I _{ld}	P _{ld}	I _{hd}	P _{hd}		
A	A	A	kW	A	kW	A	kW		
480	560	480	250	461	250	343	160	ACS880-04-505A-3	R10
556	730	556	315	551	315	408	200	ACS880-04-585A-3	R10
621	730	621	355	602	315	453	250	ACS880-04-650A-3	R10
689	1020	689	355	679	355	538	250	ACS880-04-725A-3	R11
779	1020	779	400	770	400	594	315	ACS880-04-820A-3	R11
836	1100	836	450	822	450	689 (**)	355	ACS880-04-880A-3	R11

Un= 500V (range 380 to 500V) The power ratings are valid at nominal voltage 500 V									
Input rating	Max current	Nominal use		Light-overload use		Heavy-duty use		Type designation	Frame size
		IN	PN	I _{ld}	P _{ld}	I _{hd}	P _{hd}		
A	A	A	kW	A	kW	A	kW		
437	560	437	250	428	250	314	200	ACS880-04-460A-5	R10
480	560	478	315	459	315	343	200	ACS880-04-503A-5	R10
556	730	554	355	544	355	393	250	ACS880-04-583A-5	R10
618	730	603	400	592	400	453	315	ACS880-04-635A-5	R10
689	850	679	450	670	450	538	355	ACS880-04-715A-5	R11
779	1020	779	500	767	500	594	400	ACS880-04-820A-5	R11
836	1100	836	560	814	560	662	450	ACS880-04-880A-5	R11

Un= 690V (range 525 to 690 V) The power ratings are valid at nominal voltage 690 V									
Input rating	Max current	Nominal use		Light-overload use		Heavy-duty use		Type designation	Frame size
		IN	PN	I _{ld}	P _{ld}	I _{hd}	P _{hd}		
A	A	A	kW	A	kW	A	kW		
314	480	314	250	304	250	242	200	ACS880-04-330A-7	R10
352	520	352	315	342	315	309	250	ACS880-04-370A-7	R10
409	520	409	400	399	355	342 (*)	315	ACS880-04-430A-7	R10
447	655	447	400	432	400	394	355	ACS880-04-470A-7	R11
496	655	496	450	480	450	432	400	ACS880-04-522A-7	R11
561	800	561	500	542	500	480	450	ACS880-04-590A-7	R11
618	820	618	560	599	560	542 (*)	500	ACS880-04-650A-7	R11
685	820	685	630	670	630	542 (*)	500	ACS880-04-721A-7	R11



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ACS880-04 Series

Nominal Ratings:	
I_{IN}	Nominal input current (RMS)
I_N	Nominal output current (available continuously with no over-loading)
P_N	Typical motor power in no-overload use
I_{max}	Maximum output current. Available for 10 seconds at start, as long as allowed by drive temp.
Light-Overload use:	
I_{LO}	Continuous RMS output current allowing 10% overload for 1 min. every 5 min.
P_{LO}	Typical motor power in light-overload use
Heavy-duty use:	
I_{HD}	Continuous RMS output current allowing 50% overload for 1 min. every 5 min. (*) Continuous RMS output current allowing 44% overload for 1 min. every 5 min. (**) Continuous RMS output current allowing 40% overload for 1 min. every 5 min.
P_{HD}	Typical motor power for heavy-duty use

Note1: The ratings apply at an ambient temperature of 45 °C

Note2: To achieve the rated motor power given in the table, the rated current of the drive must be higher than or equal to the rated motor current.

Note3: Converter module selectable option code: 0B051 for IP 00

Marine approval consists of the following options:

Code	Description
+C132	Marine Type Approved drive. Requires: option + E208
+E208	Common mode filter.

Reference documents:

Industrial Catalogue: 3AUA0000115038

Drive hardware manuals and guides:
3AUA0000128301, 3AXD50000010521

Drive firmware manuals and guides:
3AUA0000085967, 3AUA0000098062

Test reports:

ABB reports:

3AXD10000089327, AXD10000106522, 3AXD10000241834, 3AXD10000242533, 3AXD10000248380,
3AXD10000249676, 3AXD10000281074, 3AXD10000287077, 3AXD10000309864, 3AXD10000331826,
3AXD10000351614, 3AXD10000351619, 3AXD10000352832, 3AXD10000352833, 3AXD10000406983,
3AXD10000413217, 3AXD10000352127, 3AXD10000347322.

NEMKO reports:

224724 TRF EMC_3AXD10000097342, 243333-1 R10 TRF EMC_3AXD10000262979,
252375 TRF EMC_3AXD10000315812.

INNVENTIA reports:

273767 A_3AXD10000311718

SGS reports:

275993-1 TRF EMC_3AXD10000318980, 275996 TRF EMC_3AXD10000318978,
276592-1 TR EMC IEC61800-3_3AXD10000369955, 276592-2 TR EMC IEC60533_3AXD10000369956
272110-1_3AXD10000243890, Test Report 273473-1_3AXD10000284796



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ACS880-04 Series

SGS FIMKO reports:

277447-1 R10 ABB Spelt ACS880 690V TRF_3AXD10000403998;

277447-2 R11 ABB Spelt ACS880 690V TRF_3AXD10000403998

VTT reports:

VTT-S-01320-13_3AXD10000116165, VTT-S-03275-13_3AXD10000235075, VTT-S-06084-12_3AXD10000095239

General Remark:

Drives, AC880-04 Series are suitable for installation in General Power Distribution Zone, according to IEC 60533 (1999) emission limits.

Installation and use to be in accordance with the Manufacturer Instructions.

GDANSK July 22, 2020

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