



Lloyd's
Register

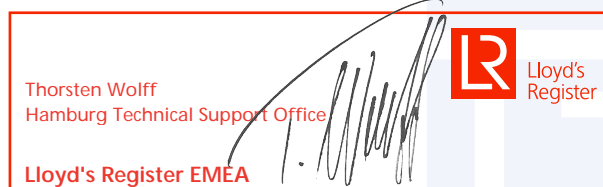
Type Approval Certificate

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.

This certificate is issued to:

PRODUCER	ABB Oy Drives Hiimotie 13 F-00380 Helsinki Finland
DESCRIPTION	ACS880LC, liquid cooled drive inverter modules
TYPE	Basic types ACS880-104LC-0390A-7 ACS880-104LC-0430A-7 ACS880-104LC-0480A-7 ACS880-104LC-0530A-7 ACS880-104LC-0600A-7 ACS880-104LC-0670A-7 ACS880-104LC-0750A-7 ACS880-104LC-0850A-7 Types in parallel connections ACS880-104LC-1030A-7 ⁽¹⁾ ACS880-104LC-1170A-7 ⁽¹⁾ ACS880-104LC-1310A-7 ⁽¹⁾ ACS880-104LC-1470A-7 ⁽¹⁾ ACS880-104LC-1660A-7 ⁽¹⁾ ACS880-104LC-1940A-7 ⁽¹⁾ ACS880-104LC-2180A-7 ⁽¹⁾ ACS880-104LC-2470A-7 ⁽¹⁾ ACS880-104LC-2880A-7 ⁽¹⁾

Certificate No.	17/20066
Issue Date	22 June 2017
Expiry Date	21 June 2022
Sheet	1 of 3



LR031.1.2013.12

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TYPE (continues)

ACS880-104LC-3260A-7 ⁽¹⁾
ACS880-104LC-3580A-7 ⁽¹⁾
ACS880-104LC-4050A-7 ⁽¹⁾
ACS880-104LC-4840A-7 ⁽¹⁾
ACS880-104LC-5650A-7 ⁽¹⁾
ACS880-104LC-6460A-7 ⁽¹⁾

⁽¹⁾ parallel connections

Inverter modules: ACS880-104 (INU)

Frame sizes: R8iLC to 8xR8iLC

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 – 2015.

STANDARD

IEC 61800-5-1: 2007

IEC 60204-1: 2006

RATINGS

Voltage: $U_N = 690 \text{ V AC}$ (range 525 V to 690 V AC)

Power: 355 to 6000 kW

OTHER CONDITIONS

For ambient temperature above 45°C up to 55°C the rated current output is to be derated by 0.5% for every added 1°C according to manufactures hardware manual ACS880-104LC inverter modules.

PLACE OF PRODUCTION

ABB Oy Drives
Hiomotie 13
F-00380 Helsinki
Finland

ABB AS
Aruküla tee 83
75301 Jüri
Harjumaa
Estonia

Certificate No.

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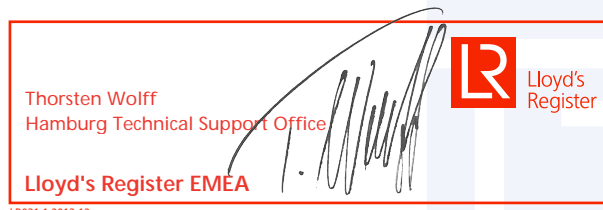
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The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

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.

The Design Appraisal Document No. HTS/ETS 35447-17 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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