



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 supersedes certificate number 16/20108 issued on 14.12.2016 which is hereby cancelled.

This certificate is issued to:

PRODUCER

ABB Oy Drives
Hiomotie 13
FI-00380 Helsinki
Finland

DESCRIPTION

ACS880, air-cooled drive modules and high power single drive module packages

TYPES

ACS880-x04/ 1604-yyyA-3/5/7+ C132
x = 1, 2, 3, 6,
yyy = current value (see ratings)

ACS880-104-0140A to 5130A-3
ACS880-104-0110A to 4610A-5
ACS880-104-007A3 to 5700A-7
Inverter modules:
ACS880-104 (INU); 380V-690V; 5kW to 5320kW
Frame sizes R5i to 10xR8i

ACS880-204-0210A to 4620A-3
ACS880-204-0210A to 4150A-5
ACS880-204-0310A to 5130A-7

Certificate No.

16/20108 (E1)

Issue Date

04 September 2017

Expiry Date

13 December 2021

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Thorsten Wolff
Hamburg Technical Support Office

Lloyd's Register EMEA

LR031.1.2013.12

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TYPES (continues)

Supply Modules:

ACS880-204 (ISU); 380V-690V; 138kVA to 5819kVA;
Frame sizes R6i + ALCL-05-5 to 10xR8i + 5xBLCL-25-7
ACS880-304-0650A to 5470A-3
ACS880-304-0650A to 5470A-5
ACS880-304-0570A to 4560A-7

Supply Modules:

ACS880-304 (DSU) 380V-690V; 430kVA to 5174kVA;
Frame sizes 2xD7T, D8T to 6xD8T

ACS880-604-0210A to 3770A-3

ACS880-604-0260A to 4710A-5

ACS880-604-0400A to 6500A-7

Brake modules:

ACS880-604 (NBRA -types, 1-phase); 380V-690V; 67kW to 678kW;
Frame sizes NBRA658 to 6xNBRA669
ACS880-604 (nxR8i -types, 3-phases); 380V-690V; 480kW to 6180kW;
Frame sizes R8i to 5R8i

ACS880-1604-0600A to 4500A-3

ACS880-1604-0600A to 4500A-5

ACS880-1604-0400A to 3000A-7

DC/DC -converter modules:

ACS880-1604; 380V-690V; 290kW to 2721kW;
Frame sizes R8i to 5xR8i (DC output)

ACS880-x4/ 04XT-yyyA-3/5/7+ C132

x = 0, 1, 3

yyy = current value (see ratings)

ACS880-04XT-1190A to 1610A-3

ACS880-04XT-1160A to 1610A-5

ACS880-04XT-0810A to 1320A-7

Product type ACS880-04XT is using 2 x parallel connected ACS880-04 modules, sizes R 10 and R 11.

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TYPES (continues)

ACS880-04XT; 380V-690V; 599kW to 1140kW;
Frame sizes 2xR10 to 2xR11 High power single drive module packages.

ACS880-04-1140A to 2610A-3
ACS880-04-1070A to 1980A-5
ACS880-04-0800A to 2300A-7
ACS880-04; 380V-690V; 532kW to 2090kW;
Frame sizes 2xD7T, D8T to 4xD8T + 2xR8i to 4xR8i

ACS880-14-0450A to 2530A-3
ACS880-14-0420A to 2270A-5
ACS880-14-0320A to 2230A-7
High power single drive module packages:
ACS880-14; 380V-690V; 238kW to 2090kW;
Frame sizes R8i to 4R8i + BLCL-XX-X + R8i to 4xR8i

ACS880-34-0450A to 2530A-3
ACS880-34-0420A to 2270A-5
ACS880-34-0320A to 2230A-7
High power single drive module packages:
ACS880-34; 380V-690V; 238kW to 2090kW;
Frame sizes R8i to 4R8i + BLCL-XX-X + R8i to 4xR8i

APPLICATION

Marine, offshore and industrial applications for use in environmental categories ENV1 and ENV2 as defined in Lloyd's Register Type Approval System, Test Specification Number 1 July 2015.
For installation in "General Power Distribution Zones".

STANDARDS

Manufactures specification: Electrical planning instructions: ACS880 multidrive cabinets and modules 3AUA0000102324
Requirement specification: Category 1: drive modules and high power single drive module packages
IEC 61800-5-1: 2007
IEC 60204-1: 2006

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RATINGS

Power range: 5 kW to 6180 kW

Voltage classes: 3 (380 to 415V)
5 (380 to 500V)
7 (525 to 690V)

OTHER CONDITION

For ambient temperature above 45°C up to 55°C the rated current output is to be derated by 1% for every added 1°C according to manufactures rating table.

PLACE OF PRODUCTION

ABB Oy Drives
P.O.Box 184 FI00381 Helsinki Finland
Street address: Hiomotie 13
FI-00380 Helsinki
Finland

ABB AS.
Aruküla tee 83
75301 Jüri Harjumaa
Estonia

ABB Drives,
No.1, Block D, A-10 Jiuxianqiao Beilu
Chaoyang District
Beijing
PR China

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 35814-17 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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