



Marine & Offshore
Division

Attestation number: 114LYN15

The continuation sheet(s) form(s) part of the attestation.

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ATTESTATION FOR TERMINAL BLOCK

Applicant : ABB France - Activite Raccordement (CHASSIEU CEDEX - FRA)
Requirements : Environmental tests for marine certification
Product description : **POWER TERMINAL BLOCKS FOR MARINE APPLICATIONS**
Quantity : 1 set

Particulars of products as declared by the applicant:

Manufacturer : ABB France - Activite Raccordement (CHASSIEU CEDEX - FRA)
Test performed according to : IEC 60068
Damp heat test-cyclic : IEC 60068-2-30
Dry heat test : IEC 60068-2-2
Damp heat test-static : IEC 60068-2-78
Cold test : IEC 60068-2-1
Range of products tested : TERMINAL BLOCKS POWER RANGE TYPE D
Products tested : D35/27.FF, D300/55.FF
Products covered : D35/27.FF, D70/32.FF, D120/42.FF, D185/55.FF, D300/55.FF

Enclosures / Remarks : Test reports Nr: 20150128-1A and 3A
 This attestation cannot be used as type approval document.
 Only tests performed according to IEC referenced are certified.

At the request of the applicant identified here above, this is to attest that the interventions as described in the subsequent page(s) were carried out with satisfactory results and within the scope of the General Conditions of Marine & Offshore Division of Bureau Veritas

Marking : Range product - Manufacturing date - IEC standard

Last attendance date : 16 Apr 2015

Surveyor : Jean-Marc Cabuzel

Issuance date : 18 Jun 2015

Office : BV LYON



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SCOPE OF INTERVENTION

TESTS PERFORMED

- All the tests listed below have been performed in our attendance.

- According to the following IEC 60068 standard

* IEC 60068-2-30 Ed. 3.0 / 2005-08 : Damp heat test - cyclic

- Tests scheduled:
 - . Before test:
 - Voltage drop
 - Insulation resistance
 - . After test
 - Voltage drop
 - Dielectric test
 - Insulation resistance

* IEC 60068-2-2 Ed. 5.0 / 2007-07: Dry heat test

- Tests scheduled
 - . Before test
 - Voltage drop
 - . After test
 - Voltage drop

* IEC 60068-2-78 Ed. 2.0 / 2012-10: Damp heat test - static

- Tests scheduled:
 - . Before test:
 - Voltage drop
 - Insulation resistance
 - . After test
 - Voltage drop
 - Dielectric test
 - Insulation resistance

* IEC 60068-2-1 Ed. 6.0 / 2007-03: Cold test

- Tests scheduled:
 - . Before test:
 - Voltage drop
 - Insulation resistance
 - . After test
 - Voltage drop
 - Dielectric test
 - Insulation resistance

For information IEC standards above listed are required by IACS E10 2014 rev.6, BV NR467 2014-07, DNV SFC N° 2.4 2006-04, GL Ed.2012 VI-7-2 & LRS Ed. 2015-02 requirements.

PRODUCTS TESTED

Products listed below are representative of terminal blocks power range type D.

IEC STANDARD REF.	REF. TEST	TERMINAL BLOCK REF.
IEC 60068-2-30	Damp heat test -cyclic	D35/27.FF, D300/55.FF
IEC 60068-2-2	Dry heat test	D35/27.FF, D300/55.FF
IEC 60068-2-78	Damp heat test-static	D35/27.FF, D300/55.FF
IEC 60068-2-1	Cold test	D35/27.FF, D300/55.FF

RESULTS OF TESTS

All results of tests performed are detailed on report Nr: 20150128-1A & 3A .

These reports are attached to this attestation.

All tests are conform with corresponding IEC requirements.