



Certificate number: 24898/C1 BV

File number: ACE02/14/18

Product code: 2634H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**ABB FRANCE**  
CHASSIEU - FRANCE

*for the type of product*

**CONTACTORS (LOW VOLTAGE)**

Contactors AF range - AF09 to AF38 / AFC09 to AFC38

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.  
IEC 60947-4-1 (2018)

EC Code: 31/41

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 28 Oct 2026**

### For Bureau Veritas Marine & Offshore,

At BV LYON, on 17 Nov 2025,  
Michaël Vavro

***This certificate was created electronically and is valid without signature***



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 4 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

**AF09...AF38 are contactors** for controlling power circuits up to 690 VAC and 440VDC.

**AFC09...AFC38 are contactors** controlled by electromagnet.

**AFS09...AFS38 are contactors** for safety application.

AF(C)...: with screw terminals

AF...S: with spring terminals

AF(C)...K : with push in terminals

AF...-30 : Coil 30, coil with low consumption 24Vdc.

AFC... : with coil in AC only.

Table 1 of 2

Specification/Type		AF...
Maximum rated operational current (at 40°C)	Ie	See table 2
Maximum Rated operational voltage	Ue	690V
Rated insulation voltage	Ui	690V
Rated Operational Frequency	/	50/60 Hz
No. of poles		3 or 4
Enclosure degree of protection	IP	20
Rated Impulse Withstand voltage	Uimp	6 kV
Utilization Category:	/	See table 2
Rated control circuit voltage	Uc	12 - 500 Vdc 24 - 500 Vac

Table 2 of 2

Reference	Nb of pole	Ith	Ue / Ie Utilization category	230V	400V	440V	500V	690V
AF09	3	35A(1) /22A(2)	Ie(AC-3)	9A	9A	9A	9.5A	7A
			Ie(AC-1)	25A(1)/20A(2)				
AF12	3	35A(1) /22A(2)	Ie(AC-3)	12A	12A	12A	12.5A	9A
			Ie(AC-1)	28A(1)/22A(2)				
AF16	3	35A(1) /22A(2)	Ie(AC-3)	18A	18A	18A	15A	10.5A
			Ie(AC-1)	30A(1)/22A(2)				
AF26	3	50A(1) /35A(2)	Ie(AC-3)	26A	26A	26A	23A	17A
			Ie(AC-1)	45A(1)/35A(2)				
AF30	3	50A(1)	Ie(AC-3)	33A	32A	32A	28A	21A
			Ie(AC-1)	50A(1)				
AF38	3	50A(1)	Ie(AC-3)	40A	38A	38A	33A	24A
			Ie(AC-1)	50A(1)				
	4	55A(1)	Ie(AC-1)	55A(1)				

(1): Contactor, with screw or push-in (K) terminals

(2): Contactor, with spring terminals (S)

### 2. DOCUMENTS AND DRAWINGS:

- Catalog N° 1SBC100219C0201, dated Jul 2020.
- Catalog N° 1SBC100214C0202, dated Mar 2020.
- Catalog N° 1SBC100173C0201, dated Mar 2013.

**3. TEST REPORTS:****Intertek Semko AB:**

- EMC test report N° 1621944STO-001, Ed. 1, dated 28 Sep 2017.
- Test report N° 2021527STO-001, dated 16 Jun 2020.
- IECCEB Scheme N° SE-96553M1, dated 25 Jun 2020.
- Test report N° 2021525STO-001, dated 17 Sep 2020.
- Test report N° 2021526STO-001, dated 17 Sep 2020.
- IECCEB Scheme N° SE-96551M1, dated 28 Sep 2020.
- IECCEB Scheme N° SE-96552M1, dated 28 Sep 2020.
- IECCEB Scheme N° SE-113571, dated 14 Mar 2024.
- Test report N° 2302478STO-001, dated 14 Feb 2024.

**ABB accredited laboratory:**

- Vibration test report n° 20110276-A, dated 20 Jun 2011.
- Climatic test report n° 20110590-A, dated 12 Dec 2011.
- Climatic test report n° 20170641, dated 26 Jan 2017.
- Vibration test report n° 20180114-A, dated 14 Jun 2018.
- Climatic test report n° 20180113-1A, dated 28 Aug 2018.
- Vibration test report n° 20180115-A, dated 25 Sep 2018.
- Vibration test report n° 20210261-1MA, dated 23 Jun 2021.
- Vibration test report n° 20210261-2MA, dated 23 Jun 2021.
- Vibration test report n° 20210261-3MA, dated 23 Jun 2021.

**4. APPLICATION / LIMITATION:**

- 4.1 - BV Rules for the Classification of Steel Ships and IEC 60947-4-1
- 4.2 - BUREAU VERITAS Environmental Category, **EC Code: 31/41**
- 4.3 - Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.4 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev9

**5. PRODUCTION SURVEY REQUIREMENTS:**

- 5.1 - The above products are to be supplied by **ABB FRANCE** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 - **ABB FRANCE** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
- 5.4 - For information, ABB FRANCE has declared to Bureau Veritas the following production sites:

**ABB FRANCE**  
**11 Rue d'Arsonval**  
**69680 CHASSIEU**  
**FRANCE**

**ABB Xinhui Low Voltage Switchgear Co., Ltd.**  
**Jinggzhou Industrial Development Zone**  
**Xinhui District, Jiangmen City**  
**Guangdong 529100**  
**China**  
**Xinhui**  
**CHINA**

**ABB INDIA LIMITED**  
**Sy. No. 88/3 to 88/6**  
**Kasaba Hobli, Basavanahalli Village**  
**BANGALORE**  
**INDIA**

**6. MARKING OF PRODUCT:**

- According to IEC 60947 specifications.

**7. OTHERS:**

7.1 - It is **ABB FRANCE**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 24898/C0 BV issued by the Society.

**\*\*\* END OF CERTIFICATE \*\*\***