

Certificate No: **TAE00000TX** 

# TYPE APPROVAL CERTIFICATE

This is to certify:					
That the Contactor					
with type designation(s) Contactors A9, A12, A16, A26, A30, A40, A50	), A63, A75.,				
Issued to ABB France CHASSIEU Cedex, France					
is found to comply with DNV GL rules for classification – Ships and or	ffshore units				
Application :					
For installations inside switchboard/enclosures onboard ships and offshore units.  Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.					
Туре	Rated Voltage	Rated Current	Frequency		
Contactors A9, A12, A16, A26, A30, A40, A50, A63, A75.	(V) 690	(A) 7 - 46 (AC-3)	(Hz) 50 / 60		
This Certificate is valid until <b>2020-12-31</b> .					
Issued at Høvik on 2015-12-28					
DNV GL local station: Marseille		for <b>DNV GL</b>			
Approval Engineer: Nicolay Horn					
	Marit Laumann				
		Head of Section	l		

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

Job Id: **262.1-003109-3** Certificate No: **TAE00000TX** 

# Name and place of manufacturer

ABB France Chassieu, France ABB Xinhui Low voltage Switchgear Co. Ltd Guangdong, China

ABB Ltd Bangalore 560058, India

## **Product description**

Contactors for use up to 690 volt.

Poles	3 or 4	
Max. Current	see list below	
Frequency	50 or 60 Hz	
Coil voltage	Various	
Insulating medium	Air	
Rated Insulation Voltage	690 V	
Impulse withstand voltage	8 kV	
Rated Making current	10 x Ie (AC-3)	
Rated Breaking current	8 x Ie (AC-3)	
Rated Withstand current	see list below	

List of current and power ratings for 690 volt. See manufacturers catalogue for current and power ratings for lower voltages.

Туре	Nom. Current AC-1, at 690V	Nom. Current AC-3, at 690V	Withstand current*, 1s	Max power at 690V
	t ≤ 55°C	$t \leq 55^{\circ}C$	t = 40°C	t ≤ 55°C
A 9	22 A	7 A	250 A	5.5 kW
A 12	25 A	9 A	280 A	7.5 kW
A 16	27 A	10 A	300 A	9 kW
A 26	40 A	17 A	400 A	15 kW
A 30	55 A	21 A	600 A	18.5 kW
A 40	60 A	25 A	600 A	22 kW
A 50	85 A	35 A	1000 A	30 kW
A 63	95 A	43 A	1000 A	37 kW
A 75	105 A	46 A	1000 A	40 kW

<sup>\*</sup>Withstand current must be derated by 5% as DNV rules state max ambient temp of 45°C onboard ships not 40°C as stated by IEC. Separate case-by case approval is needed in each case to use the figures as listed.

#### Application/Limitation

For installations inside switchboard/enclosures onboard ships and offshore units.

## **Type Approval documentation**

Technical info:

Manufacture's catalogue 1SBC 100122 C0202.

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#### Test reports:

CB test certificate FR602227A dated 2010-11-26. Test report no. 101630-603377A issued 2010-11-15.

Witnessed by DNV: ABB Control Test no. 16998

#### **Tests carried out**

Type tests according to IEC 60947-4-1.

Other tests: Insulation, power supply variation, inclination, vibration, damp heat, dry heat, high voltage.

## **Marking of product**

Manufacturers type - standard reference - ratings

#### **Periodical assessment**

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests
  according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at least every second year.

**END OF CERTIFICATE** 

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