

Certificate No: **TAE00001UT**

TYPE APPROVAL CERTIFICATE

This is to certify:			
That the Contactor Relay			
with type designation(s) DC operated NL contactor relay			
Issued to ABB France CHASSIEU Cedex, France			
is found to comply with DNV GL rules for classification – Ships, offshore ur	nits, and high speed and light craft		
Application:			
For installations inside switchboards / enclosures	onboard ships and offshore units		
Issued at Høvik on 2017-04-17			
This Certificate is valid until 2021-12-04 . DNV GL local station: Marseille	for DNV GL		
Approval Engineer: Nicolay Horn	Andreas Kristoffersen		
	Head of Section		

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.



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Name and place of manufacturer

ABB France,	ABB Bulgaria Branch Rakovski
Chassieu, France	Plovdiv, Bulgaria

Product description

Low voltage DC contactor relay

Technical data:

Contactor type		NL 22 E	NL 31 E	NL 40 E
Number of poles			4	
Rated insulation voltage (Ui)	V		690	
Rated impulse withstand voltage Uimp	kV		8	
Rated Frequency	Hz		25 - 400	
Degree of protection	IP		20	
Rated thermal current (Ith)	Α		16	
Rated operational current (Ie) (AC-15 690 V)	Α		2 A	
Rated operational current (Ie) (DC-13 250 V)	Α		0.3 A	
Short circuit prorection (gG fuse)	10 A		10	•

Technical data auxiliary contacts:

Add-on Auxiliary contacts w/ screw terminals	1-pole CA 5-xy, 4-pole CA 5xy
Rated control circuit voltage	690 V
Rated impulce withstand voltage Uimp	6 kV
Conventional thermal current Ith	16 A
Rated operational current (I _e) (AC-15 690 V)	2 A
Rated operational current (I _e) (DC-13 250 V)	0.3 A
Short circuit prorection (gG fuse)	10 A

x=N.O. contact y=N.C. contact

Application / limitation

Environmental classes:

Temperature: B, Humidity: B, Vibration: C.

Type Approval documentation

Technical info:

« 3 pole contactors, 4 pole contactors...», catalogue from ABB no. 1SBC100122C0202, undated

Test reports:

ABB Entrelec test reports nos. 2005476-A-M dated 2005-06-22 & 2005477-A-M dated 2005-06-23. SEMKO Test Reports nos SE-30112, SE-30113 & SE-62119A1 & SE-66833A1. Intertek test report no. 1610805STO-001 dated 2016-10-20 (CA-5).

Tests carried out

Guidelines for Performance of Type Approvals Part 2, Edition 2003. Type tests according to IEC 60947-1 (2001-12), IEC 60947-4-1(2002-12) and IEC60947-5-1 (2003-11).

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Marking of product

ABB - Type designation - Rated voltage - Breaking capacity.

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 d Routines (RT) checked (if not available tests 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.

Periodical assessment to be performed at 2 and 3.5 years and at renewal.

END OF CERTIFICATE

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