



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE No. E-4849
This Certificate consists of 3 pages

This is to certify that the
CONTACTOR

with type designation
CONTACTORS N22, N31, N40, N44, N53, N62, N71, N80

Manufactured by
ABB CONTROL
CHASSIEU CEDEX, FRANCE

is found to comply with
DET NORSKE VERITAS' RULES FOR CLASSIFICATION OF SHIPS AND MOBILE OFFSHORE UNITS

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


Place and date
Høyvik, 05. October 1998
for DET NORSKE VERITAS AS


Henning B. Karlsen
Head of Section



Local Office
DNV Lyon

This Certificate is valid until
31. December 2002


Kjetil Asland
Surveyor

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Cert. No.: E-4849
File No.: 823.20

Product description

Contactors for use up to 690 volt.

Poles/ contacts	4 or 8
Max. Current	see list below
Frequency	50 or 60 Hz
Coil voltage	Various
Insulating medium	Air
Impulse withstand voltage	8 kV
Rated Making current	10 x I _e
Rated Breaking current	10 x I _e
Rated Withstand current	see list below

List of current and power ratings for 690 volt, I_{AC-15} and 250V, I_{DC-13}.
See manufacturers catalogue for current and power ratings for lower voltages.

Type	Nom. Current AC-15, at 690V t ≤ 55°C	Nom. Current DC-13, at 250V t ≤ 55°C	Withstand current*, I _s t = 40°C
N, all types	2 A	0.3 A	100 A

*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.

Type Approval documentation

LOVAG: FR 97-080, FR97-2472-57
Witnessed by DNV: ABB Control Test no. 16998
Manufacturers catalogue: FRCTL 0107-97.