

DET NORSKE VERITAS

Type Approval Certificate

CERTIFICATE NO. E-8992

This Certificate consists of 3 pages

This is to certify that the

Miniature Circuit Breaker

with type designation(s)

NB1-63

Manufactured by

Zhejiang Chint Electrics Co., Ltd

Wenzhou 325603, China

is found to comply with Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application

Normally not to be used in main switchboards, unless specially approved with regard to power factor and breaking capacity.

Place and date Høvik, 2008-04-16 or Det Norske Veritas AS

Head of Section

Local Office DNV Shanghai This Certificate is valid until 2012-06-30

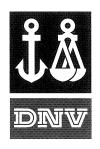
Nicolay Horn

Surveyor

Notice: 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.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such pe However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

DET NORSKE VERITAS AS Form No.: 20.90a Issue: January 98



Cert. No.: E-8992

File No.: 825.20

Product description

Miniature Circuit Breakers with the following type designations:

Type NB1-63 and NB1-63H - 1, 2, 3 and 4 poles

Tripping characteristics:	B/C/D
Rated operation voltage (AC)	240/415 V *
Frequency	50 - 60 Hz
Rated current	1, 2, 3, 4, 6, 10 - 63 A
Breaking capacity Icn	10 kA (NB1-63H)
	6 kA (NB1-63)
Power factor	0.2 - 0.25

^{*} Suitable in a 415/240 V system.

Application/Limitation

The MCB's are tested with 1.1x Un and is therefore suitable in a 415/240 V system.

Tested in accordance with IEC 60947-2 Annex C (C2 test).

Normally not to be used in main switchboards, unless specially approved with regard to power factor and breaking capacity.

Type Approval documentation

Technical data: "NB1-63 DNV Application", undated.

Test reports: ETL SEMKO ref. nos. 617389-1/2/3/4 and 617393-1/2/3/4 all issued 2006-12-14, ref. no 306901-1/2/3 issued 2003-08-15"78, Shanghai Testing & Inspection Institute for Electrical Equipment test report ref. no 07065, issued 2007-11-19.

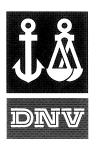
Tests carried out

Tpe tested according to IEC / EN 60898 "Circuit breakers for overcurrent protection for household and similar installations" and IEC 60947-2 "Circuit breakers". Vibration test, dry heat test and damp heat test in according to DNV CN 2.4 (Class A).

Marking of product

Product marking: NB1-63 – Zhejiang Chint Electrics - Type designation

VERITASVEIEN 1, 1322 HØVIK, NORWAY TEL: (+47) 67 57 99 00 FAX: (+47) 67 57 99 11 Form No.: 20.90a Issue: January 98 Page 2 of 3



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Certificate retention survey

The scope of the retention/renewal survey is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems/components/materials.

The main elements of the survey are:

- Inspection of factory samples, selected at random from the production line (where practicable).
- Review of production and inspection routines, including test records from product sample tests and control routines.
- Ensuring that systems/components/materials used comply with type approved documents and/or referenced system/component/material specifications.
- Review of possible changes in design of systems/components/materials, software version and performance, and make sure that such changes do not affect the type approval given.
- Ensuring traceability between manufacturer's product type marking and the type approval certificate.
- Ensuring that type approved documentation is available.

Survey to be performed at least every second year.

END OF CERTIFICATE

Form No.: 20.90a Issue: January 98

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