

Certificate No. 10693

ASTA CERTIFICATION SERVICES

(Incorporated in the year 1938)

23/24 Market Place, Rugby, CV21 3DU, England

Laboratory Ref. No. CU140/87A

CERTIFICATE OF SHORT-CIRCUIT RATING

APPARATUS: The three phase and neutral vertical busbars only of a non-extensible modular system without outgoing circuits, suitable for use on TN and TT systems.

DESIGNATION: System 2000

MANUFACTURER: Cubic-Modulsystem A/S, Skjoldborgsgade 21, DK9700 Broenderslev, DENMARK.

TESTED BY: George Ellison Short-Circuit Testing Laboratory, Perry Barr, Birmingham.

DATE(S) OF TESTS: 13th October 1987.

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this Certificate has been subjected to the series of proving tests in accordance with British Standard 5486:Part 1:1986 and IEC Publication 439-1:1985 clauses 8.2.3.2.3 b) and d).

The results are shown in the record of Proving Tests and the oscillograms attached hereto. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated below.

Clause 8.2.3.2.3 b)

Rated short circuit withstand current of 50kA rms for 3.0 secs with a peak of 105kA.

Clause 8.2.3.2.3 d)

Rated short circuit withstand current of 30kA rms for 3.0 secs with a peak of 63kA.

The record of Proving Tests apply only to the apparatus tested. The responsibility for conformity of any apparatus having the same designations with that tested rests with the Manufacturer.

This Certificate comprises 4 pages, 2 diagrams, 2 oscillograms, 3 photographs, 3 drawings and other sheets as detailed on page

Only integral reproduction of this Certificate, or reproductions of this page accompanied by any page(s) on which are stated the assigned rated characteristics of the apparatus tested, are permitted without written permission from ASTA, 23/24 Market Place, Rugby CV21 3DU England. (see ASTA Publication No.7).

D. Heanue ASTA Observer

M. J. Swan Director

9th February 1988 Date



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. E-6078
This Certificate consists of 4 pages

This is to certify that the
Power Switch Board with Bus Bar
with type designation(s)
S225, S2000/S2000D, S2000HD, S7000

Designed by
CUBIC-Modulsystem A/S
Brønderslev, Denmark

is found to comply with
Det Norske Veritas Rules for Classification of Ships and Mobile Offshore Units

Application
Type approval regards system design principle.

Type	Rated voltage (V)	Rated current (A)	Rated freq. (Hz)
S225	690	225	40-60
S2000/S2000D, S2000HD	690	1800 (vert.) / 2250	40-60
S7000	690	6300	40-60

Place and date
Høvik, 2002-10-16
for DET NORSKE VERITAS AS

Arne Færevaaag
Arne Færevaaag
Head of Section



Local Office
DNV Aalborg

This Certificate is valid until
2006-06-30

Nicolay Horn
Nicolay Horn
Surveyor

Notice: This Certificate is subject to terms and conditions overlaid. 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 person for his proved direct loss or damage. 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. In this provision 'Det Norske Veritas' shall 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.