

Certificate of Verification of temperature-rise limits

Issued by: CUBIC-Modulsystem A/S, Skjoldborgsgade 21, DK-9700 Broenderslev

Certificate No.: 10001

Classification code: IEC 60439-1

Test date and place: 01 Apr 2003, CUBIC-Modulsystem A/S Test Laboratory

Test object: CUBIC manufactured switchboard / outgoing/incoming section.
Size 4x12x4M (WxHxD), 1M = 192mm
Horizontal busbar: S7000, 6x10x100
Vertical busbar: S2000, 2/2x10x30
Components: 2 x Terasaki AR220S, 2000A ACB.

Code of certificate: EN 60439-1:1999 / IEC 60439-1:1999 +A1:2004, sup-clause 8.2.1

Performance: The temperature-rise test is designed to verify that the temperature-rise limits for the different parts of the assembly are not exceeded.


The switchboard is assembled in accordance with CUBIC documentation and drawing No.: 2x2000A, see attached.

The switchboard is tested for the maximum load at IP54, IP20 with raised top and louvers, and also at IP 44 by using fan and filter.

Conclusion: The test switchboard fulfilled the requirements according to the Code of testing.

Maximum load at IP 54:	1700A / 1860A ⁽¹⁾
Maximum load at IP 20	
- Air inlet - 280 cm ²	
- Air outlet - 308 cm ² :	1940A / 2000A ⁽¹⁾
Maximum load at IP 44	
- Fan capacity - 200 m ³ /h:	1700A / 1860A ⁽¹⁾

⁽¹⁾ Amp rating at upper / lower ACB

5/5-03 
Date Jørn Jacobsen, Project Manager, R&D

5/5-03 
Date Lars Poulsen, Director, R&D