

ASTA CERTIFICATE

Laboratory Ref. No. 102453

CERTIFICATE OF TEMPERATURE-RISE AND SHORT-CIRCUIT RATING

APPARATUS: Two 3000 A, 415 V (U_e) 50 Hz, switchgear and controlgear assemblies each incorporating a three-phase horizontal and vertical busbar system and fitted with an incoming air circuit-breaker unit.

DESIGNATION: SWB1 and SWB1a fitted with OC-ETP[®] twist copper busbar system

MANUFACTURER: Oriental Copper Co., Ltd.
700/45 M. 6 Amata Nakorn Industrial Estate
Klongtumru Sub-District, Amphur Muang,
Chonburi 20000 Thailand

TESTED BY: Testing & Certification Australia
18 Mars Road Lane Cove NSW 2066 Australia

DATE(S) OF TESTS: 15 to 26 May 2008

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 IEC Publication 60439-1: 2004 Edition 4.1 with Corrigendum 1 and BS EN 60439-1: 1999 with Amendment 1: 2004 and Corrigenda 1 and 2 Clauses 8.2.1 and 8.2.3

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.

Verification of the Temperature-rise limits (Clause 8.2.1)

Rated current of the assembly : 3000 A

SWB1 (Twist copper busbar system as detailed in drawing BDW08 – 043 – 001, Sheet 006 – 2, Rev. A. (Vertical twist busbars 4 - 125 mm x 5 mm and horizontal busbars 3 - 125 mm x 5 mm)

SWB1a (Twist copper busbar system as detailed in drawing BDW08 – 043 – 001, Sheet 006 – 3, Rev. A. (Vertical twist busbars 4 - 125 mm x 5 mm and horizontal busbars 3 - 125 mm x 5 mm)

Verification of the Short-circuit withstand strength (Clause 8.2.3)**Rated peak and short-time withstand current (Clause 8.2.3.2.3 b)**

SWB1a (Twist copper busbar system)

Phase busbars : 50 kA rms for 1 s, 105 kA peak

: 40 kA rms for 1 s, 84 kA peak

(Vertical twist busbars 4 - 125 mm x 5 mm and horizontal busbars 3 - 125 mm x 5 mm)

The record of Proving Tests applies 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 25 pages, 1 diagram, 2 oscillograms, 17 photographs, 13 drawings and no other sheets, as detailed on page 1.

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 BEAB Certification Services, Hilton House, Corporation Street, Rugby, CV21 2DN United Kingdom. (see overleaf)



010

P. J. Ryan
ASTA Observer

Certification
Manager

8th October 2008

Date