

ASTA CERTIFICATE

Laboratory Ref. No. 102266

CERTIFICATE OF SHORT CIRCUIT RATING

APPARATUS: Two sets of three-phase horizontal and vertical busbars of a 415 V, 50 Hz, low voltage switchgear and controlgear assembly.

DESIGNATION: Short circuit switchboard

MADE FOR: 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 OF TESTS: 22 February 2007

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 and BS EN 60439-1: 1999 with Amendment 1 2004 Clause 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.

For ratings assigned by the manufacturer and proved by the tests see page 1.

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 15 pages, 1 diagrams, 6 oscillograms, 13 photographs, 6 drawings and 2 data sheets, as detailed on page 2.

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)



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P. J. Ryan
P. J. Ryan
ASTA Observer

C. Ninkadon DIRECTOR

3rd August 2007 Date

ASTA CERTIFICATE

Laboratory Ref. No. 102267

CERTIFICATE OF TEMPERATURE-RISE RATING

APPARATUS: Two 415 V (U_e) 50 Hz, switchgear and controlgear assemblies incorporating three-phase and neutral horizontal busbar, one incoming air circuit-breaker unit and one outgoing air circuit-breaker unit and one outgoing moulded case circuit-breaker and their connection busbars.

DESIGNATION: SWB1 fitted with OC-ETP[®] copper busbars
SWB2 fitted with alternate copper busbars

MADE FOR: 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: 18 and 19 February 2007

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 Clause 8.2.1

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.

For ratings assigned by the manufacturer and proved by the tests see page 1.

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 48 pages, - diagrams, - oscillograms, 36 photographs, 12 drawings and no other sheets, as detailed on page 2.

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P. J. Ryan P. J. Ryan
ASTA Observer

C. Mickelthorn C. Mickelthorn
DIRECTOR

7th August 2007 7th August 2007
Date