

ASTA CERTIFICATE

Laboratory Ref. No. 102763

CERTIFICATE OF VERIFICATION TESTS

APPARATUS: 2000 A, 415 V / 690 V / 6 kV ($U_n = U_e/U_i/U_{imp}$) 50 Hz, power switchgear and controlgear (PSC Assembly) incorporating three-phase and neutral, horizontal and vertical busbar systems, one incoming air circuit-breaker unit, three outgoing MCCB units and a protective circuit. The PSC-Assembly is suitable for indoor use and has a metallic enclosure.

DESIGNATION: 2000 A MSB

MANUFACTURER: Elecol Switchgear Sdn Bhd
Lot 6, Jalan 6/2, Kawasan Perusahaan
Seri Kembangan 43300 Seri Kembangan Selangor Darul Ehsan
Malaysia

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

DATE(S) OF TESTS: 24 February to 16 June 2010

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 61439-2 : 2009 Edition 1.0 Clauses 8.101, 10.2 to 10.5, 10.9, 10.10 with 10.10.2.3.5, 10.11 with 10.11.5, 10.12 and 10.13

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

Rated Voltage ($U_n = U_e/U_i/U_{imp}$) : 415 V / 690 V / 6 kV, Pollution degree 3

Rated Current : I_n 2000 A with a Rated Diversity Factor of 1.0

Rated Short-circuit current : $I_{cw} = 50$ kA for 3 s, $I_{pk} = 105$ kA peak
 $I_{cc} = 50$ kA rms at 415 V, pf = 0.25

Degree of protection : IP43

Form of Separation : Form 4b applying IP2X criteria

See pages 1 to 2 for full details of ratings assigned by the manufacturer and proved by tests

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 47 pages, 2 diagrams, 19 oscillograms, 38 photographs, 12 drawings and no other sheets, as detailed on page 3.

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 Intertek, Hilton House, Corporation Street, Rugby, CV21 2DN United Kingdom.
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P. J. Ryan
ASTA Observer

P. Gibbs
Certification
Manager

13TH August 2010 Date