ASTA CERTIFICATE

Laboratory Ref. No. 102004

CERTIFICATE OF SHORT-CIRCUIT RATING

APPARATUS:

A range of unenclosed three-pole, 500 V / 1000 V (Ue /Ui), 800 A to 3200 A (Ith), 50 Hz, Category B, withdrawable air circuit-breakers comprising AE2000-SW, AE2500-SW and AE3200-SW of the same

frame size fitted with an electronic over-current relay Type WS-1.

DESIGNATION:

AE2000-SW, AE2500-SW and AE3200-SW Air Circuit Breakers

MANUFACTURER:

Mitsubishi Electric Corporation

Fukuyama Works, 1-8 Midori - Machi Fukuyama - City Hiroshima - Pref. 720 8647 Japan

TESTED BY:

Testing & Certification Australia

18 Mars Road Lane Cove NSW 2066 Australia

DATE(S) OF TESTS: 28 May to 15 June 2005

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 60947-2: 2003 Edition 3.0, BSEN 60947-2: 2003 and AS 60947.2-2005, Clause 8.3.6.

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.

Test sequence IV: Icw

Rated short-time withstand current : Icw

75 kA rms for 1 s, 165 kA peak at 500 V

Test sequence II (Clause 8.3.4) of IEC 60947-2: 2003, tests for the verification of rated service and rated ultimate short-circuit breaking capacity (Ics = Icw) of 85 kA at 500 V, 0.20 lagging power factor were performed and these are detailed in ASTA Certificate No. 16070 (TCA Laboratory Ref. No. 102003)

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

> This Certificate comprises 26 pages, 1 diagram, 10 oscillograms, 14 photographs, 23 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)



Chick-Lus DIRECTOR

3/st October 2005

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ASTA CERTIFICATE

Laboratory Ref. No. 102003

CERTIFICATE OF SHORT-CIRCUIT RATING

APPARATUS: A range of unenclosed three-pole 500 V / 1000 V (Ue /Ui), 800 A to

3200 A (Ith), 50 Hz, Category B, withdrawable air circuit-breakers comprising AE2000-SW, AE2500-SW and AE3200-SW of the same frame size fitted with an electronic over-current relay Type WS-1.

DESIGNATION: AE2000-SW, AE2500-SW and AE3200-SW Air Circuit Breakers

MANUFACTURER: Mitsubishi Electric Corporation

Fukuyama Works, 1-8 Midori - Machi Fukuyama - City

Hiroshima - Pref. 720 8647 Japan

TESTED BY: Testing & Certification Australia

18 Mars Road Lane Cove NSW 2066 Australia

DATE(S) OF TESTS: 27 May to 10 June 2005

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 60947-2: 2003 Edition 3.0, BSEN 60947-2: 2003 and AS 60947.2-2005, Clause 8.3.4.

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.

Test sequence II: Ics = Icu

Rated service and rated ultimate short-circuit breaking capacity: Ics and Icu

85 kA at 500 V, 0.20 lagging power factor

Test sequence IV (Clause 8.3.6) of IEC 60947-2 : 2003, tests for the verification of rated short-time withstand current (Icw) of 75 kA rms for 1 s,165 kA peak at 500 V were performed and these are detailed in ASTA Certificate No. 16071 (TCA Laboratory Ref. No. 102004)

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, 2 diagrams, 22 oscillograms, 17 photographs, 23 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)



J. Child ASTA Observer

C. Mick-Juns DIRECTOR

3/st October 2005