

ASTA CERTIFICATION SERVICES

(Incorporated in the year 1938)

ASTA House, Chestnut Field, Rugby, CV21 2TL, England

Laboratory Ref. No. 101558AC

CERTIFICATE OF SHORT-CIRCUIT RATING

APPARATUS: Two homogeneous* ranges of non-indicating cartridge fuse links for use in ac electricity supply networks comprising Type gG fuse links of 160 A and 63 A nominal current rating at 415 V ac with intermediate ratings of 125 A, 100 A and 80 A and Type gG fuse links of 250 A and 200 A nominal current rating at 415 V ac.

DESIGNATION: JPU 160A, JPU 125A, JPU 100A, JPU 80A and JPU 63A fuse links
JPU 250A and JPU 200A fuse links

MANUFACTURER: UNH Engineering Sdn Bhd
No. 1 and 2, Kg Perenggan,
45200 Sabak Bernam, Selangor, Malaysia

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

DATE(S) OF TESTS: 28 August to 19 November 2002

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

BSEN 60269-1:1999 with Amendment 1 and BS 88-5:1988 with Amendment 1, Clause 8.5

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.

| | |
|-------------------------|--|
| Rated voltage | : 415 V |
| Rated frequency | : 50 Hz ac |
| Rated breaking capacity | : 50 kA at 415 V, 0.1 - 0.2 pf lagging |

*Note: The JPU 160A and JPU 63A fuse links and the JPU 250A and JPU 200A fuse links represent the maximum and minimum ratings of each homogeneous series. The intermediate ratings of 125 A, 100 A and 80 A for the JPU 160A to JPU 63A range of fuse links have been examined and complies with the requirements of a homogeneous series as specified in Clause 8.1.5.2 of BSEN 60269-1:1999 with Amendment 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 18 pages, 1 diagram, 23 oscillograms, 8 photographs, 11 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 Certification Services, ASTA House, Chestnut Field, Rugby, CV21 2TL England. (see overleaf)



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P J Ryan
ASTA Observer

C. Mick-Toms
ENGINEERING MANAGER
29TH APRIL 2003 Date