

ASTA

CERTIFICATE OF TYPE TESTS

Laboratory Ref. No: LSWGWO00812033/04

Certificate No....18137

APPARATUS:

Unenclosed, adjustable, 3-Pole Moulded Case Circuit-breaker, fitted with adjustable Over Current Releases. Rated Current In = 500A to 630A, Ue = 415/400V, U_i = 750V, U_{imp} = 8kV. Utilisation Category A, Terminals marked: Line

and Load, Reference Ambient Temperature 55°C

DESIGNATION:

FTCL 50kA

MANUFACTURER:

Farraj Trading & Manufacturing Co.

P.O. Box 61122, Jebel Ali Free Zone, Dubai, United Arab Emirates

TESTED BY:

Electrical Research & Development Association

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, Gujarat, INDIA

DATES OF TESTS: 4th March to 11th May 2011

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 60947 -2: 2009-05 Edition 4.1 with Amendment 1: 2009 - Clause 8.3.3, 8.3.4 & 8.3.5 Test sequence I, II & III

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.

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 26 pages, 1 diagram, 28 oscillograms, 15 photographs, 42 drawings and no other sheets as detailed on pages 2 & 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 Intertek Testing and Certification Ltd, Hilton House, Corporation Street, Rugby. CV21 2DN, England.

UKAS PRODUCT CERTIFICATION 010

Rajani Menon .ASTA Observer

.....Certification



Ratings Assigned by the Manufacturer and Proved by Tests

Test Sequence I: General performance characteristics (Clause 8.3.3):

Tripping limits and characteristics (Clause 8.3.3.1): Verified

Dielectric properties (Clause 8.3.3.2):

Rated operational voltage (U_e): 415 V Rated insulation voltage (U_i): 750 V Rated Impulse withstand voltage (U_{imp}): 8 kV

Mechanical operation and operational performance capability (Clause 8.3.3.3): Verified

Overload performance (Clause 8.3.3.4): Verified

Verification of dielectric withstand (Clause 8.3.3.5):

Verification of temperature-rise (Clause 8.3.3.6):

Rated current (In): 630 A

Verification of overload releases (Clause 8.3.3.7): Verified

Verification of under voltage and shunt releases (If applicable) (Clause 8.3.3.8): Not applicable

Verification of main contact position (Clause 8.3.3.9):

(for circuit breaker suitable for isolation)

Test Sequence II (Clause 8.3.4) & III (Clause 8.3.5):

Rated service short-circuit breaking capacity (lcs): 50kA at 415V, pf=0.25

Rated ultimate short-circuit breaking capacity (Icu): 50kA at 415V, pf=0.25