

# ASTA

## CERTIFICATE OF TYPE TESTS

Laboratory Ref. No: LSWGWO0077034/03

Certificate No. 17815

**APPARATUS:** A range of 80A, 100A & 125A Switch-Disconnectors (MCB Type), Triple pole, 415V/500V/4kV ( $U_e/U_i/U_{imp}$ ), 50/60Hz, AC 22A Utilization Category.

**DESIGNATION:** FTCDK380, FTCDK3100 & FTCDK3125

**MANUFACTURER:** Farraj Trading & Manufacturing Co.,  
P.O. Box 61122, Jebel Ali, Dubai, United Arab Emirates

**TESTED BY:** Electrical Research & Development Association  
ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, Gujarat, INDIA

**DATES OF TESTS:** 11<sup>th</sup> November 2009 to 25<sup>th</sup> February 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 60947-3: 2008**  
**Test Sequences: I, II & IV**

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 19 pages, 1 diagram, 57 oscillograms, 12 photographs, 26 drawings and no other sheets 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 INTERTEK Testing & Certification Ltd, Hilton House, Corporation Street, Rugby. CV21 2DN, England



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*Rajani Menon*

Rajani Menon  
ASTA Observer

*R. Jayaram*

Certification  
Manager

28<sup>th</sup> July 2010

Date



### Ratings Assigned by the Manufacturer and Proved by Tests

Rated operational current ( Range) ( $I_e$ ):	80A, 100A & 125A
Conventional free air thermal current ( $I_{th}$ ):	80A, 100A & 125A
Rated operational voltage ( $U_e$ )	415V
Rated insulation voltage ( $U_i$ )	500V
Rated impulse withstand voltage ( $U_{imp}$ )	4kV <sub>p</sub>
Number of Poles	Three
Rated frequency	50/60Hz
Rated duty	Eight-hour duty
Fuse Protected short circuit withstand current	6kA
Fuse Protected short-circuit making capacity	6kA
Utilization category	AC22A
Details of short circuit protective device	HRC Fuse link 125A
Method of operation	Manual
Number of position of main contacts	2
1. <b>Test Sequence I:</b> General Performance characteristics (Clauses 8.3.3.1, 8.3.3.2, 8.3.3.3, 8.3.3.4, 8.3.3.5, 8.3.3.6, 8.3.3.7)	<b>Verified</b>
2. <b>Test Sequence II:</b> Operational performance capability (Clauses 8.3.4.1, 8.3.4.2, 8.3.4.3, 8.3.4.4)	<b>Verified</b>
3. <b>Test Sequence IV :</b> Conditional short-circuit current (Clauses 8.3.6.2.1.a, 8.3.6.2.1.b, 8.3.6.3, 8.3.6.4, 8.3.6.5)	<b>Verified</b>