

ASTA

CERTIFICATE OF TYPE TESTS

Laboratory Ref. No: LSWGWO0077034/02

Certificate No.....17816.....

APPARATUS: A range of 25A to 63A Switch-Disconnectors (MCB Type), Double pole, 415V/500V/4kV ($U_e/U_i/U_{imp}$), 50/60Hz, AC 22A Utilization Category.

DESIGNATION: FTCDK225, FTCDK232, FTCDK240, FTCDK250, FTCDK263.

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: 11th November 2009 to 9th March 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, 47 oscillograms, 8 photographs, 26 drawings and no other sheets as 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.



.....*Rajani Menon*..... Rajani Menon
ASTA Observer
.....*R. Rajan*..... Certification
Manager
.....4th October 2010.....Date

Ratings Assigned by the Manufacturer and Proved by Tests

Rated operational current (Range) (I_e):	25A, 32A, 40A, 50A & 63A
Conventional free air thermal current (I_{th}):	25A, 32A, 40A, 50A & 63A
Rated operational voltage (U_e)	415V
Rated insulation voltage (U_i)	500V
Rated impulse withstand voltage (U_{imp})	4kV _p
Number of Poles	Two
Rated frequency	50/60Hz
Rated duty	Eight-hour duty
Fuse Protected short circuit withstand current	10kA
Fuse Protected short-circuit making capacity	10kA
Utilization category	AC22A
Details of short circuit protective device	HRC Fuse link 63A
Method of operation	Manual
Number of position of main contacts	2
1. Test Sequence I:	Verified
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)	
2. Test Sequence II:	Verified
Operational performance capability (Clauses 8.3.4.1, 8.3.4.2, 8.3.4.3, 8.3.4.4)	
3. Test Sequence IV :	Verified
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)	