

# ASTA

## CERTIFICATE OF COMPLETE COMPLIANCE

Certificate No. 18211

Laboratory Ref. No: SC07215A & LSWGWO0089872

**APPARATUS:** A range of 6A to 63A Circuit breakers for over current protection for household and similar installations - Miniature Circuit Breaker (MCB), 240/415V, 10kA, single pole, double pole & three pole, Instantaneous tripping current: C type, Mounting: plug in and DIN rail wire in / wire out (screw type terminals)

**DESIGNATION:** FTCP106H-FTCP163H, FTCD106H-FTCD163H, FTCP206H-FTCP263H, FTCD206H-FTCD263H, FTCP306H-FTCP363H, FTCD306H-FTCD363H, FTCC106H-FTCC163H, FTCC206H-FTCC263H, FTCC306H-FTCC363H

**MANUFACTURER:** Farraj Trading & Manufacturing Co.,  
P.O. Box 6112, Jebel Ali, Dubai, United Arab Emirates

**TESTED BY:** **Short Circuit Laboratory, Central Power Research Institute**, Sir. C. V. Raman Road, Sadashivanagar Post Office, P. B. No. 8066, Bangalore – 560 080 (India)  
&  
**Electrical Research and Development Association (ERDA)**  
ERDA Road, Makarpura Industrial Estate, Vadodara – 390 010 (India)

**DATES OF TESTS:** 14<sup>th</sup> May 2007 to 21<sup>st</sup> February 2008 & 13<sup>th</sup> December 2010 to 30<sup>th</sup> April 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 60898-1, Edition 1.2: 2003, Table C.3**  
**Test Sequences: A, B, C<sub>1</sub>, C<sub>2</sub>, D<sub>0</sub>, D<sub>1</sub>, E<sub>1</sub> and E<sub>2</sub>**

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 126 pages, 5 diagrams, 208 oscillograms, 82 photographs, 36 drawings and no other sheets as detailed on page 2 to 7

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, Hilton House, Corporation Street, Rugby. CV21 2DN, England.



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*Rajani Menon*  
*R. Menon*

Rajani Menon  
ASTA Observer

Certification  
Manager

*29th June 2011*

Date

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

Rated current:	6A to 63A
Number of poles:	Single, Double & Triple poles
Rated operational voltage ( $U_e$ ):	240/415 V
Rated impulse withstand voltage ( $U_{imp}$ ):	4kVp
Instantaneous tripping current:	C type
Rated Service Short Circuit Capacity ( $I_{cs}$ ):	7.5 kA
Rated Short Circuit Capacity ( $I_{cn}$ ):	10 kA
1. <b>Test Sequence A:</b> (Clauses 6, 8.1.1, 8.1.2, 9.3, 8.1.3, 8.1.6, 9.4, 9.5, 9.6, 8.1.3, 9.14, 9.15 & 9.16)	Verified
2. <b>Test Sequence B:</b> (Clauses 9.7, 9.8 & 9.9)	Verified
3. <b>Test Sequence C<sub>1</sub>:</b> (Clauses 9.11, 9.12.11.2.1 & 9.12.12)	Verified
4. <b>Test Sequence C<sub>2</sub>:</b> (Clauses 9.12.11.2.2 & 9.12.12)	Verified
5. <b>Test sequence D<sub>0</sub>:</b> (Clauses 9.10)	Verified
6. <b>Test sequence D<sub>1</sub>:</b> (Clauses 9.13, 9.12.11.3 & 9.12.12)	Verified
7. <b>Test sequence E<sub>1</sub>:</b> (Clauses 9.12.11.4.2 & 9.12.12)	Verified
8. <b>Test sequence E<sub>2</sub>:</b> (Clauses 9.12.11.4.3 & 9.12.12)	Verified