

ASTA Certificate

of Verification Tests

Laboratory Ref. No.: MN-1314-0313/03, 04 & 05

APPARATUS: 1600 A, 415 V / 690 V / 8kV ($U_n=U_e / U_i / U_{imp}$), 50 Hz, IP54, Form 4b Power Switchgear and Controlgear Assembly (PSC-Assembly) incorporating a three-phase and neutral extensible horizontal tinned copper busbar system, one incoming 4 pole withdrawable air circuit-breaker unit, one outgoing ACB unit, five outgoing MCCB units and the protective circuit. 415 V / 1000 V / 12kV ($U_n=U_e / U_i / U_{imp}$) for main horizontal and vertical busbars, vertical droppers and incoming ACB unit.

DESIGNATION: ENERSYS-M

MANUFACTURER: Larsen & Toubro Electrical & Automation, Powai Campus
P.O.Box No - 8901, Mumbai - 400 072, INDIA

TESTED FOR: Evershine Electrical Switchgear Manufacturing L.L.C, PO Box 33647,
Dubai, UAE

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

DATE(S) OF TESTS: 3rd January to 8th July 2014

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 61439-2: Edition 2.0 2011-08

Verifications with reference to the tests listed in Annex D of IEC 61439-1 Edition 2.0 2011-08.

- | | |
|---------------------------------------|---|
| 1: Strength of material and parts | 9: Dielectric properties |
| 2: Degree of protection of enclosures | 10: Temperature-rise limits |
| 3: Clearances | 11: Short-circuit withstand strength |
| 4: Creepage distances | 12: Electromagnetic compatibility (EMC) |
| 5: Protection against electric shock | 13: Mechanical operation |

6/7/8: No verification by testing required

For ratings assigned by the manufacturer and proved by the tests see pages 1 to 5

The results are shown in the record of Proving Tests 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 on the ratings page(s). This Certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

This Certificate comprises this front sheet, 5 ratings pages, plus 136 other pages and 14 drawings as detailed on pages 6 to 8

Only integral reproductions of this whole certificate or reproductions of this page accompanied by any ratings pages are permitted.
Issued by Intertek, Centre Court, Meridian Business Park, Leicester,
LE19 1WD England. Contact: asta@intertek.com Tel: +44 (0)116 263 0330



010

C. Diack-Evans C Diack-Evans
ASTA Observer

[Signature]
Certification
Manager

28th July 2016 Date

