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CSIR - CIMFR TESTING CELL



TEST CERTIFICATE / परीक्षण प्रमाण पत्र

ORIGINAL COPY

FORMAT NO. CIMFR-DM-FLP02: F-01:REV-01)
(Flame & Explosion Laboratory)

ID NO.: 51/16

CODE NO. FLP/201/15-16

14. Any other relevant information:

- i) The above apparatus has been tested and certified by CIMFR vide prototype test report no.: CIMFR/TC/P/H365, Dated: 10/08/2009 as per IS: 2148-2004.
- ii) The apparatus under reference has also been tested for surface temperature rise classification/impact test/thermal shock test as per IS: 13346-2004 (IEC 60079-0/2000). Hence it may be acceptable as per IS/IEC 60079-0-2004 for temperature class impact test/thermal shock test since the test procedure for temperature rise testing are same in both the standard.
- iii) The apparatus under reference has also been tested for weatherproof IP-66 degree of protection as per IS: 12063-1987 (IEC 60529-1989), hence it may be acceptable for weatherproof degree of protection IP-66 as per IS/IEC 60529:2001. Since the test procedure for weatherproof protection are same in both the standard.
- iv) As per clause 4.2.1 Note-2 of IS/IEC 60079-0-2004 Apparatus marked IIB is suitable for applications requiring Group IIA apparatus.

15. Declaration by the Applicant/Manufacturer:

- (i) **As to standards with which the apparatus complies in respect of:**
 - a) Electrical apparatus for Potentially Explosive atmosphere - General requirements: IS/IEC 60079-0: 2004
 - b) As to flameproof protection IS/IEC 60079-1: 2007
 - c) Ingress protection as per IS/IEC 60529:2001

(ii) **Composition of the cast aluminum alloy LM-6 declared by the manufacturer:** Composition of cast aluminum alloy LM-6 purported to be forming the material of construction of the enclosure has been declared by the manufacturer having Mg. 0.1%.

However no sample of the alloy was drawn from the prototype enclosure for verifying its chemical composition declared by the manufacturer

16. Documents/Sample Submitted :

- i) Application form
- ii) Drawings
- iii) Prototype sample

17. Compliance of prototype or sample with documents: The test sample of electrical apparatus submitted for the type tests complies with the manufacturers documents referred above.

Note: CIMFR has however not checked and tested the compliance of the apparatus to any standard other than the above standards.

SCOPE OF THE TEST CERTIFICATE

The Test Certificate issued by CIMFR testifies that the apparatus has been found to comply with the definition of flameproof cum weatherproof APPARATUS contained in the relevant Standard specifications. They do not vouch for the quality of the equipment in any other respect.

This Institute reserves the right to review amend or withdraw this Test Report at any time if considered necessary in the interest of safety.