TEST REPORT



Central Power Research Institute

(A Govt. of India Society)
P.B.No. 8066, Sadashivanagar Post Office,
Sir C.V. Raman Road,
Bangalore – 560 080 (INDIA)



TEST REPORT

Test Report Number

Name & Address of the customer

323EATDFAN13S0004

Dated: 14.06.2013

M/s Versa Drives Pvt Ltd

351B/2A, Uzhaipalar Street, G.N.Mills PO

Coimbatore - 641029

Name & Address of the Manufacturer

M/s Versa Drives Pvt Ltd

351B/2A, Uzhaipalar Street, G.N.Mills PO

Coimbatore - 641029

Particulars of sample tested

Condition of the sample on Receipt

Type

Designation

Serial Number

Number of Samples Tested

Date(s) of test (s)

CPRI Sample Code No

New

1200 mm Sweep, 220 - 240V, 50 Hz, Super X Series

Electric Ceiling Fan

MX1.13060014

One

: 15.05.2013 To 31.05.2013

EATDFAN13S0004

Particulars of test Conducted

Test in accordance with

Standard/ Specification

Sampling Plan

Customer's requirement

Deviations if any

As per IS: 374 - 1979 (With Amendments up to 06)

Not Applicable

-Nil-

: Winding Insulation : Class ' F '

Names of the witnessing persons

Customer's representatives

Other than Customer's representatives

Test Subcontracted with

address of the laboratory

Mr. P. Pon Karthik Kumar

-Nil-

None

Documents constituting this report

(In words)

Number of sheets

Number of oscillograms

Number of graphs

Number of photos

Number of Test circuit Diagrams

Number of drawings

Six only

-Nil-

-Nil--Nil-

-Nil-

-Nil-

(A.LOURDHUNADHAN)
Test Engineer



(GUJJALA B. BALARAJU) Head of the Division



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TEST RESULT

SI. No	Test Conducted	Clause Reference/ Specified Requirements / conditions	Results/values obtained
1.	Size	Clause 3.0: Standard size of the ceiling fan=1200mm	<u>S0004</u> Measured Size = 1202 mm
2. s	Design and General construction	Clause 6.0: 6.1) Enclosures: 6.1.1) Enclosure Type 6.1.2) The enclosures of all-insulated fans may form part or whole of the supplementary or reinforced insulation	Complies Supplementary insulation
**		6.3) Blades :	Complies
		6.4) Heat Resistance:	Complies
		6.5) Moisture Resistance :6.6) Bearings : Instruction for the proper	Not Applicable – (Regulator not used) FAG Double side shielded deep
	43	lubrication of bearings	groove ball bearing used.
	*	6.7) Protective Measures: Basic / Double or Reinforced Insulation	With basic insulation only, with the accessible metal parts designed to be connected to an Earthing terminal or contact
	10	6.7.1) Indication / Marking of Earthing Terminal	Earthing Contact provided
		6.8) Protection Against Direct Contact : Accessibility of live parts shall not be possible	Live parts are not Accessible
		6.9) Capacitors:	No capacitor
		6.10) Suspension System: Adequate Strength	Complies test carried out as specified in clause 10.14 under type test
		6.11) Components Replacement	Not Applicable
		6.12) Parts Providing degree of Protection against moisture	Not possible to remove the parts without the aid of a tool
	24	6.13) Corrosion of current carrying parts	Complies



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3.	. Finish	Clause 7.7 Surface Protection of Motor and Blades	Complies
4.	Speed regulators	Clause 7.9: 7.9.1) Speed Regulators	Complies
	in the second	7.9.2) The ideal Speed Differences	Complies
		7.9.3) Provision of Discharge Capacitors in the OFF position	Not Applicable
		7.9.4) Regulator Handle or Knob	Not Applicable
		7.9.5) The Mechanism of the Regulator contact at each running position 7.9.6) Protection Against Moving Current Carrying Parts	Not Applicable
			Not Applicable
	1.5	7.9.7) Electronic Type Regulator	Not Applicable
	-	7.9.8) Voltage Drop across Electronic Type Regulator	Not Applicable
5.	Interchangeability	Clause 7.11: The Motor of the fan of a particular size and model and its associated regulator & set of Blades shall be Interchangeable	Complies
6.	Test for Air delivery & Service value	Clause 10.3: The minimum air delivery shall be 200 m³/minute	220.80 m³/min
		The minimum service value shall be 4.0 m³/min/w	6.55 m³/min/w

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7.	Test for Temperature Rise	Clause 10.4: The temperature rise measured on different parts shall not be more than as below: a) Winding of the fan motor = 110 °C (Class F Insulation) b) On the Frame enclosing regulator = 40 °C c) On the External surface of capacitor = 45 °C	RY = 33.86 °C YB = 33.86 °C BR = 36.71 °C Not Applicable
8.	Test for leakage current	Clause 10.5: The Leakage current measured shall not exceed 750 μA (Peak) Between current carrying terminal and body	692.86 μA (Peak)
9.	Test for High Voltage	Clause 10.6: There shall be no break down or flashover when test voltage is applied for one minute between: Fan Motor a) Live parts & body – 1500 V b) Live parts & other inaccessible metal part - 1500V Fan regulator a) Any terminal & body – 1500 V b) Terminals with regulator in OFF position – 1500V	Withstood Withstood Not Applicable Not Applicable
10.	Test for insulation Resistance	Clause 10.7: The insulation resistance shall not be less then 2 Mega ohms measured between: Fan motor a) Live terminal & body Fan regulator a) Live terminal & body	>20GΩ Not Applicable
11.	Test for starting	Clause 10.8: The fan shall be capable of starting 10 times at lowest speed step of regulator at 85 Percent of its test voltage.	Fan started satisfactorily

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12.	Test for fan speed & input	Clause 10.9: a) Speed b) Input power (W) c) Power factor	390 rpm 33.7 W 0.99
13.	Test for Earthing connection	Clause 10.10: The resistance value shall not exceed 0.1 Ohm	0.021 Ω
14.	Test for suspension system	Clause 10.14: The suspension system of the ceiling fan shall withstand a tensile load of 1000kg and a torsion load of 500-kg cm	Withstood
15.	Test for Creepage distance & clearance	Clause 10.15: Creepage distance shall not be less than:	Measured Values in mm:
		a) Between live parts of different polarity - 3mm b) Between live parts & other metal parts -	9.01
		4mm Clearance shall not be less than:	9.80
		a) Between live parts of different polarity - 2.5mm	4.48
	-23486	b) Between live parts & other metal parts - 3mm	3.20

Note: Infra-Red Remote speed command control used for speed variation.

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NOTE

- a) The Test results relate only to the item(s) tested.
- b) Publication or reproduction of the test report /Certificate in any form other than by complete set of the whole test report /Certificate and in the language written is not permitted without the written consent of CPRI.
- c) Any Corrections/erasure invalidates the test Report/Certificate
- NABL has Accredited this laboratory as per ISO 17025-2005 standard for the tests carried out.
- e) Any anomaly/discrepancy in the test report /Certificate should be brought to the notice of CPRI within 45 days from the date of issue.
- f) The verification of the sample drawings by CPRI is limited to dimensional checks only wherever possible.

Test Engineer