



HI PHYSIX LABORATORY INDIA PVT. LTD

B-32/1/2, MIDC, Ranjangaon, Pune, Maharashtra info@hiphysix.com, infohplindia@gmail.com Phone: 02138 - 232901, 232902, 232903

CIN: U74120DL2009PTC194754

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TEST REPORT

TEST REPORT AS PER IS 2993:1998

SRF No. 18020823

Name & Address of Customer:	Test Report No: HPLI/Test/1802082301(PART B)			
M/s. TIBREWALA ELECTRONICS	Date of Issue: 16/03/2018			
LIMITED	Customer Ref. & Date: Letter dated January 31, 2018			
Plot No. 17, S.V. Co-op. Industrial Estate, Balanagar, Hyderabad – 500 037	Date of Sample Receipt: 02/02/2018	Start of Test Date: 07/02/2018	End of Test Date: 14/03/2018	

PART A - PARTICULARS OF THE SAMPLE SUBMITTED

Sample Description	A.C. MOTOR CAPACITORS		
Grade/ Variety/ Type/ Class/ Size etc.	1.00 MFD ±5%, 440VAC, SH-MPP, 50 Hz, 25/85/21		
Declared Values, if any	1.0 MFD, 440Vac, 50 Hz, SH, MPP, 25/85/21, Continuous, AC Motor Run, C, (P0)		
Code no., BIS Seal and IO's sign. If any	Nil.		
Batch no., Date of manufacture and Brand Name	Date of manufacture: 25/12/2017		
Quantity	120 Nos.		
Condition of the Sample	OK		
Reference Specification (s)	IS 2993:1998 (Tests have been carried out as per the customer's request		
Environmental Conditions	Temperature (25±4)°C & Relative Humidity<65%		

PART B - SUPPLEMENTARY INFORMATION

- a) Deviations from the test methods as per relevant specification/ work instructions, if any: Nil
- b) Details of the drawings, graphs, tables, sketches or photographs as referred in the test report, if any: Nil
- c) Testing procedure according to work instruction HPLI03/Test-cap/WI-18 to 29.
- d) The Management System is maintained in accordance with IS/ISO/IEC 17025:2005 and testing Standards/Instruments are traceable to National/International Standards.

Notes:

- i) This report is not to be reproduced wholly or in part without our special permission in writing.
- ii) This report refers only to the particular sample detailed above.
- iii) The results reported in this certificate are valid at the time of and under the stipulated conditions of measurement.
- iv) Remnants of sample will be disposed off after 30 days of issue of the test report if no any further information is received.

Tested by

Checked by

Approved by

(Sr. TECHNICAL MANAGER)

Format No.-P17F04-00





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PART C-TEST RESULT

TEST REPORT NO.: HPLI/Test/1802082301(PART B)

4 1 1 1 1	TO THAT RESCRI		AND		IS:	2993:1998
Sl.	TESTS WITH CLAUSE	SPECIFIED REQUIREMENT	ГS	F	RESULTS	
No	REFERENCE					
	Tests (For Group 2) (No. of C	Capacitors Tested: 21 Nos.)				
1.	Endurance Test (Cl. 2.13 of IS 2993: 1998)	The capacitors shall be mounted in a test chartemperature within ±2°C. The thermostat shall (t _c -15°C), and capacitors are then energized at the appropriate voltage and test cycle. Duri	nall be set to according to ring the first	ė.		
		24 h the difference between t_c and the indication of the temperature recording instrument shall be noted, and adjustments made to ensure the temperature of each capacitor case is at $t_c \pm 2$ °C. The test is then continued to the end of the appropriate time without further adjustment of the thermostat, the time being measured		Satisfactory		
		from the first energization of the capacitors. The capacitors are energized at test voltar 1.25U _N (i.e.550V) for 600hr Continuously.	No permanent breakdown,			
,		During the test no permanent breakdown, into	erruption or			
		flashover shall occur. No leak should be apparent which form drop 10 minute, when kept at upper temperature limost unfavorable position.		interruption or flashover occur Satisfactory		
		At the end of the test, the capacitors shall	Capacitor	Before	After	Change
		cool down freely to the ambient	No.	Test	Test	(%)
		temperature and the capacitance shall then	5	1.01	1.01	0.00
		be measured.	6	1.01	1.00	-0.99
		(Values in MFD)	7	1.01	1.01	0.00
		,	8	1.00	1.00	0.00
		,	9	1.01	1.00	-0.99
		,	10	1.01	1.00	-0.99
		,	11	1.01	1.01	0.00
		,	12	1.02	1.01	-0.98
			13	1.02	1.01	-0.98
			14	1.01	1.00	-0.99
	· 7		15	1.01	1.00	-0.99
			16	1.01	1.01	0.00
			17	1.01	1.00	-0.99
			18	1.00	1.00	0.00
			19	1.00	1.00	0.00
			20	1.00	1.00	0.00
			21	1.00	1.00	0.00
			22	1.01	1.00	-0.99
			23	1.01	1.00	-0.99
			24	1.00	1.00	0.00
			25	1.02	1.01	-0.98
		Permitted capacitance change shall be 3%.		Satisfac	ctory	
Tested	d By				Ch	for Andri
		Page No. 02 of 03				
				AND DESCRIPTION OF THE PARTY OF	Total Street Street Street	





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PART C-TEST RESULT

TEST REPORT NO.: HPLI/Test/1802082301(PART B) IS 2993:1998

For HI PHYSIX LABORATORY

SI.	TESTS WITH CLAUSE	SPECIFIED REQUIREMENTS	RESULTS		
No	REFERENCE				
2.	Damp heat Test	All capacitors shall be kept in the environmental	Capacitor	Before	After
	(Cl. 2.14 of IS 2993: 1998)	chamber without energizing for at a temperature of	No.	Test	Test
		40°C±2°C & relative humidity between 90% to 96%.		(in MFD)	(in MFD)
	No voltage shall be applied to the samples and no measurement shall be taken during the test. After the damp-heat period, the capacitors shall be stored under standard atmospheric conditions for recovery for not	26	1.00	1.00	
		27	1.01	1.01	
		28	1.01	1.01	
	recovery, the capacitance	less than 1 h and not more than 2 h. Immediately after	29	1.01	1.01
		recovery, the capacitance shall be measured. Testing duration: 21 days (As specified by customer)	30	1.01	1.01
	resting duration. 21 days (73s specified by editorner)	31	1.01	1.01	
		Capacitance change shall be less than 0.5 % after the test.		Satisfactory	

PART D:

- Remarks: 1. The observations given in part A of the cover page of the test report are taken from the marking on samples and specification provided with the sample.
 - 2. This test report is issued as Part B covering above two tests only as per the customer's request. Test Report No. HPLI/Test/1802082301 dated 26/02/2018 has been issued earlier covering all the tests except above two tests.

***** END OF THE TEST REPORT *****

Tested by

Checked by

Approved by

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