National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING ELECTRICAL STANDARDS LABORATORY AND R&D INSTITUTE PVT. LTD., B1+B2+B3/24, G.I.D.C. ELECTRONIC ESTATE, GANDHINAGAR, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Constructional Details / Constructional Features / Constructional Requirements	IS 8034 (Clause No. 6)
2	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	High Voltage	IS 8034 (Clause No. 9.3, 9.9(b) & 9.10(b))
3	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Insulation Resistance	IS 8034 (Clause No. 9.10(a) & 9.2)
4	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Locked Rotor	IS 8034 (Clause No. 9.9(d), 9.10(f) & 9.7)
5	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Locked Rotor	IS 8034 (Clause No. 9.9(d), 9.10(f) & 9.7)
6	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Locked Rotor	IS 8034 (Clause No. 9.9(d), 9.10(f) & 9.7)
7	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Locked Rotor	IS 8034 (Clause No. 9.9(d), 9.10(f) & 9.7)
8	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	No Load Test at Rated Voltage	IS 8034 (Clause No.9.9(c), 9.10(d))
9	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	No Load Test at Rated Voltage	IS 8034 (Clause No.9.9(c), 9.10(d))
10	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	No Load Test at Rated Voltage	IS 8034 (Clause No.9.9(c), 9.10(d))
11	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	No Load Test at Rated Voltage	IS 8034 (Clause No.9.9(c), 9.10(d))
12	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Pump Performance – Voltage – Current – Power – Speed – Head - Flow	IS 8034 (Clause No. 11)
13	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Pump Performance – Voltage – Current – Power – Speed – Head - Flow	IS 8034 (Clause No. 11)
14	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Pump Performance – Voltage – Current – Power – Speed – Head - Flow	IS 8034 (Clause No. 11)
15	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Pump Performance – Voltage – Current – Power – Speed – Head - Flow	IS 8034 (Clause No. 11)
16	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Pump Performance – Voltage – Current – Power – Speed – Head - Flow	IS 8034 (Clause No. 11)

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17	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Reduced Voltage Running Up	IS 8034 (Clause No. 9.10(e))
18	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Reduced Voltage Running Up	IS 8034 (Clause No. 9.10(e))
19	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Reduced Voltage Running Up	IS 8034 (Clause No. 9.10(e))
20	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Reduced Voltage Running Up	IS 8034 (Clause No. 9.10(e))
21	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Stator Resistance	IS 8034 (Clause No. 9.10(c))
22	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Bore Well Submersible Pump set (0.37 kW to 75 kW)	Verification of Marking / Rating Plate	IS 8034 (Clause No. 14)
23	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Earthing	IS 12615 (Clause No 6)
24	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Full Load Test	IS 12615 (Clause No 16.2.3)
25	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Full Load Test	IS 12615 (Clause No 16.2.3)
26	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Full Load Test	IS 12615 (Clause No 16.2.3)
27	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Full Load Test	IS 12615 (Clause No 16.2.3)
28	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Full Load Test	IS 12615 (Clause No 16.2.3)
29	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	High Voltage Test	IS 12615 (Clause No 16.1.6)
30	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Insulation Resistance	IS 12615 (Clause No 16.1.1)
31	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Locked Rotor Readings of Voltage, Current, Power Input at a Suitable Reduced Voltage	IS 12615 (Clause No. 16.1.4)
32	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Locked Rotor Readings of Voltage, Current, Power Input at a Suitable Reduced Voltage	IS 12615 (Clause No. 16.1.4)
33	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Locked Rotor Readings of Voltage, Current, Power Input at a Suitable Reduced Voltage	IS 12615 (Clause No. 16.1.4)
34	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Locked Rotor Test	IS 12615 (Clause No 16.2.2)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
35	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Locked Rotor Test	IS 12615 (Clause No. 16.2.2)
36	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Locked Rotor Test	IS 12615 (Clause No. 16.2.2)
37	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Locked Rotor Test	IS 12615 (Clause No. 16.2.2)
38	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Method of Cooling	IS 12615 (Clause No. 6)
39	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Momentary Overload Test	IS 12615 (Clause No. 16.2.5)
40	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	No Load Test at Rated Voltage	IS 12615 (Clause No. 16.1.3)
41	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	No Load Test at Rated Voltage	IS 12615 (Clause No. 16.1.3)
42	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	No Load Test at Rated Voltage	IS 12615 (Clause No. 16.1.3)
43	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	No Load Test at Rated Voltage	IS 12615 (Clause No. 16.1.3)
44	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Over Speed Test	IS 12615 (Clause No. 16.3.4)
45	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Pull Up Test	IS 12615 (Clause No. 12.2)
46	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Reduced Voltage Running Up	IS 12615 (Clause No. 16.1.5)
47	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Reduced Voltage Running Up	IS 12615 (Clause No. 16.1.5)
48	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Reduced Voltage Running Up Test	IS 12615 (Clause No. 16.1.5)
49	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Reduced Voltage Running Up	IS 12615 (Clause No. 16.1.5)
50	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Stator Resistance Test	IS 12615 (Clause No. 16.1.2)
51	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise at Limiting Value of Voltage and Frequency Variation	IS 12615 (Clause No. 16.3.5)
52	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise at Limiting Value of Voltage and Frequency Variation	IS 12615 (Clause No. 16.3.5)

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
53	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise at Limiting Value of Voltage and Frequency Variation	IS 12615 (Clause No. 16.3.5)
54	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise at Limiting Value of Voltage and Frequency Variation	IS 12615 (Clause No. 16.3.5)
55	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise at Limiting Value of Voltage and Frequency Variation	IS 12615 (Clause No. 16.3.5)
56	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise at Limiting Value of Voltage and Frequency Variation	IS 12615 (Clause No. 16.3.5)
57	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise at Limiting Value of Voltage and Frequency Variation	IS 12615 (Clause No. 16.3.5)
58	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise Test	IS 12615 (Clause No. 16.2.4)
59	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise Test	IS 12615 (Clause No. 16.2.4)
60	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise Test	IS 12615 (Clause No. 16.2.4)
61	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise Test	IS 12615 (Clause No. 16.2.4)
62	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise Test	IS 12615 (Clause No. 16.2.4)
63	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise Test	IS 12615 (Clause No. 16.2.4)
64	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Temperature Rise Test	IS 12615 (Clause No. 16.2.4)
65	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Verification of Marking / Rating Plate	IS 12615 (Clause No. 18)
66	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase a.c. Motors (0.12 kW to 45 kW)	Verification of Terminal Marking	IS 12615 (Clause No. 9)
67	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Constructional Details / Construction Features / Constructional Requirements	IS 14220 (Clause No. 7)
68	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	High Voltage Test	IS 14220 (Clause No. 14.9.1(b), 14.4 & 14.10.1(b))
69	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Insulation Resistance	IS 14220 (Clause No. 14.9.1(a), 14.3 & 14.10.1(a))

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70	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Locked Rotor Test	IS 14220 (Clause No. 14.9.1(d), 14.7 & 14.10.1(f))
71	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Locked Rotor Test	IS 14220 (Clause No. 14.9.1(d), 14.7 & 14.10.1(f))
72	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Locked Rotor Test	IS 14220 (Clause No. 14.9.1(d), 14.7 & 14.10.1(f))
73	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Locked Rotor Test	IS 14220 (Clause No. 14.9.1(d), 14.7 & 14.10.1(f))
74	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	No Load Test at Rated Voltage	IS 14220 (Clause No. 14.9.1(c), 14.10.1(d))
75	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	No Load Test at Rated Voltage	IS 14220 (Clause No. 14.9.1(c), 14.10.1(d))
76	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	No Load Test at Rated Voltage	IS 14220 (Clause No. 14.9.1(c), 14.10.1(d))
77	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	No Load Test at Rated Voltage	IS 14220 (Clause No. 14.9.1(c), 14.10.1(d))
78	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Pump Performance – Voltage – Current – Power – Speed – Head – Flow	IS 14220 (Clause No. 16)
79	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Pump Performance – Voltage – Current – Power – Speed – Head – Flow	IS 14220 (Clause No. 16)
80	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Pump Performance – Voltage – Current – Power – Speed – Head – Flow	IS 14220 (Clause No. 16)
81	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Pump Performance – Voltage – Current – Power – Speed – Head – Flow	IS 14220 (Clause No. 16)
82	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Pump Performance – Voltage – Current – Power – Speed – Head – Flow	IS 14220 (Clause No. 16)
83	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Reduced Voltage Running Up	IS 14220 (Clause No. 14.9.1(e) & 14.10.1(e))
84	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Reduced Voltage Running Up	IS 14220 (Clause No. 14.9.1(e) & 14.10.1(e))
85	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Reduced Voltage Running Up	IS 14220 (Clause No. 14.9.1(e) & 14.10.1(e))
86	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Reduced Voltage Running Up	IS 14220 (Clause No. 14.9.1(e) & 14.10.1(e))

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87	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Stator Resistance	IS 14220 (Clause No. 14.10.1(c))
88	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open Well Submersible Pump set (0.12 kW to 45 kW)	Verification of Marking / Rating Plate	IS 14220 (Clause No. 18)
89	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines	Earthing	IS/IEC 60034-1 (Clause No. 11)
90	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	No Load Test	IEC 60034-1 (Clause No. 6.1.3.2.4)
91	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Full Load Test / Determination of Efficiency Test	IEC 60034-2-1 (Clause No. 6)
92	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Full Load Test / Determination of Efficiency Test	IEC 60034-2-1 (Clause No. 6)
93	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Full Load Test / Determination of Efficiency Test	IEC 60034-2-1 (Clause No. 6)
94	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Full Load Test / Determination of Efficiency Test	IEC 60034-2-1 (Clause No. 6)
95	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Full Load Test / Determination of Efficiency Test	IEC 60034-2-1 (Clause No. 6)
96	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Momentary Excess Torque Test	IEC 60034-1 (Clause No. 9.4)
97	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	No Load Test	IEC 60034-1 (Clause No. 6.1.3.2.4)
98	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	No Load Test	IEC 60034-1 (Clause No. 6.1.3.2.4)
99	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	No Load Test	IEC 60034-1 (Clause No. 6.1.3.2.4)
100	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Over Speed Test	IEC 60034-1 (Clause No. 9.7)
101	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Pull Up Torque	IEC 60034-1 (Clause No. 9.5)
102	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Resistance	IEC 60034-1 (Clause No. 5.7)
103	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Thermal Performance and Test	IEC 60034-1 (Clause No. 8)
104	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Thermal Performance and Test	IEC 60034-1 (Clause No. 8)
105	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Thermal Performance and Test	IEC 60034-1 (Clause No. 8)

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Laboratory Name : TESTING ELECTRICAL STANDARDS LABORATORY AND R&D INSTITUTE PVT. LTD., B1+B2+B3/24, G.I.D.C. ELECTRONIC ESTATE, GANDHINAGAR, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6091 **Page No** 7 of 7

Validity 09/06/2021 to 08/06/2023 **Last Amended on** 17/07/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
106	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Thermal Performance and Test	IEC 60034-1 (Clause No. 8)
107	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Thermal Performance and Test	IEC 60034-1 (Clause No. 8)
108	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Thermal Performance and Test	IEC 60034-1 (Clause No. 8)
109	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Thermal Performance and Test	IEC 60034-1 (Clause No. 8)
110	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	Verification of Marking / Rating Plate	IEC 60034-1 (Clause No. 10.2)
111	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Rotating Electrical Machines (0.12 kW to 45 kW)	With Stand Voltage	IEC 60034-1 (Clause No 9.2)