National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ABB LOW VOLTAGE ROTATING MACHINE LAB., ABB INDIA LTD., 32 INDUSTRIAL AREA, NIT, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10631 **Page No** 1 of 4

Validity 19/05/2022 to 18/05/2024 **Last Amended on** -

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	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	Momentary Overload Test	IS 12615 [Cl No 12.1 & Cl No 16.2.5]
2	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	No Load Test (Power)	IS 12615 [Cl No 16.1.3]
3	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	No Load Test (Voltage)	IS 12615 [Cl. No. 16.1.3]
4	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	No Load Test (Current)	IS 12615 [Cl. No. 16.1.3]
5	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	Reduced Voltage Running Up Test	IS 12615 [Cl. No. 16.1.5]
6	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	Temperature Rise Test (Current)	IS 12615 [Cl. No. 13 & 16.2.4]
7	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	Temperature Rise Test (Speed)	IS 12615 [Cl. No. 13 & Cl. No. 16.2.4]
8	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	Temperature Rise Test (Torque)	IS 12615 [Cl. No. 13 & Cl. No. 16.2.4]
9	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	Temperature Rise Test (Power)	IS 12615 [Cl. No. 13 & Cl. No. 16.2.4]
10	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	Temperature Rise Test (Temp)	IS 12615 [Cl. No. 13 & 16.2.4]
11	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	Temperature Rise Test (Voltage)	IS 12615 [Cl. No. 13 & Cl. No. 16.2.4]
12	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC Motors [Power Output 0.12kW to 200kW]	Terminal Marking	IS 12615 [IS 12615:2018, Cl. No. 9] [IEC 60034(Part 8):2007]
13	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Earthing Provision	IS 12615 [Cl No 8]
14	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	High Voltage Test	IS 12615 [Cl No 16.1.6]
15	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Insulation Resistance Test	IS 12615 [Cl No 16.1.1]
16	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Load Test (Current)	IS 12615 [Cl No 16.2.3]
17	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Load Test (Frequency)	IS 12615 [Cl. No. 16.2.3]
18	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Load Test (Power)	IS 12615 [Cl. No. 16.2.3]

SCOPE OF ACCREDITATION

Laboratory Name : ABB LOW VOLTAGE ROTATING MACHINE LAB., ABB INDIA LTD., 32 INDUSTRIAL AREA, NIT, FARIDABAD, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10631 **Page No** 2 of 4

Validity 19/05/2022 to 18/05/2024 **Last Amended on** -

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
19	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Load Test (Speed)	IS 12615 [Cl No 16.2.3]
20	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Load Test (Temp)	IS 12615 [Cl. No. 16.2.3]
21	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Load Test (Torque)	IS 12615 [Cl. No. 16.2.3]
22	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Load Test (Voltage)	IS 12615 [Cl. No. 16.2.3]
23	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Locked Rotor Test (Current)	IS 12615 [Cl. No. 16.1.4 & 16.2.2 & 16.2.2.3.1]
24	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Locked Rotor Test (Power)	IS 12615 [Cl. No. 16.1.4 & 16.2.2 & 16.2.2.3.1]
25	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Locked Rotor Test (Voltage)	IS 12615 [Cl. No. 16.1.4 & 16.2.2 & 16.2.2.3.1]
26	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Measurement of Stator Resistance	IS 12615 [Cl No 16.1.2]
27	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Measurement of Stator Resistance	IS 12615 [Cl No. 16.1.2]
28	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Measurement of Stator Resistance	IS 12615 [Cl. No. 16.1.2]
29	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Measurement of Stator Resistance	IS 12615 [Cl. No. 16.1.2]
30	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Line Operated Three Phase AC motors [Power Output 0.12kW to 200kW]	Measurement of Stator Resistance	IS 12615 [Cl. No. 16.1.2]
31	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Earthing Provision	IEC 60034 (PART1) [Cl. No. 11.1]
32	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	High Voltage Test (Withstand Voltage Test)	IEC 60034(PART1) [Cl. No. 9.2 & Table No. 17]
33	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Load Test (Frequency)	IEC 60034 (Part 2-1) [Cl. 6.1.3.2.1 & 6.1.3.2.3]
34	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Load Test (Frequency)	IEC 60034 (Part 2-1) [Cl. No. 6.1.3.2.1 & 6.1.3.2.3]
35	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Load Test (Power)	IEC 60034 (Part 2-1) [Cl. No. 6.1.3.2.1 & 6.1.3.2.3]
36	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Load Test (Torque)	IEC 60034 (Part 2-1) [Cl. No. 6.1.3.2.1 & 6.1.3.2.3]
37	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Load Test (Voltage)	IEC 60034 (Part 2-1) [Cl. No. 6.1.3.2.1 & 6.1.3.2.3]

SCOPE OF ACCREDITATION

Laboratory Name :	ABB LOW VOLTAGE ROTATING MACHINE LAB., ABB INDIA LTD., 32 INDUSTRIAL AREA, NIT, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-10631	**Page No**	3 of 4
Validity	19/05/2022 to 18/05/2024	**Last Amended on**	-

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
38	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Load Test (Current)	IEC 60034(Part 2-1) [Cl. No. 6.1.3.2.1 & 6.1.3.2.3]
39	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Load Test (Speed)	IEC 60034(Part 2-1) [Cl. No. 6.1.3.2.1 & 6.1.3.2.3]
40	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Load Test (Temp)	IEC 60034 (Part 2-1) [Cl. No. 6.1.3.2.1 & 6.1.3.2.3]
41	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Measurement of Stator Resistance	IEC 60034 (Part 2-1) [Cl. No. 5.7]
42	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Measurement of Stator Resistance	IEC 60034 (Part 2-1) [Cl. No. 5.7]
43	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Measurement of Stator Resistance	IEC 60034 (Part 2-1) [Cl. No. 5.7]
44	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Measurement of Stator Resistance	IEC 60034 (Part 2-1)[Cl. No. 5.7]
45	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Measurement of Stator Resistance	IEC 60034(Part 2-1)[Cl. No. 5.7]
46	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Momentary Overload Test (Momentary Excess Torque for Motors)	IEC 60034(Part 1) [Cl. No. 9.4]
47	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	No Load Test (Current)	IEC 60034(Part 2-1) [IEC 60034-2-1:2014, Cl. No. 6.1.3.2.4 & IEC 60034-1:2017, Cl. No. 9.1]
48	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	No Load Test (Power)	IEC 60034(Part 2-1) [IEC 60034-2-1:2014 Cl. No. 6.1.3.2.4 & IEC 60034-1:2017, Cl. No. 9.1]
49	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	No Load Test (Voltage)	IEC 60034(Part 2-1) [IEC 60034-2-1:2014, Cl. No. 6.1.3.2.4 & IEC 60034-1:2017, Cl. No. 9.1]
50	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Temperature Rise Test (Current)	IEC 60034(Part 2-1) [IEC 60034-1:2017,Cl. No. 8 & IEC 60034-2-1:2014, Cl. No. 6.1.3.2.1]
51	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Temperature Rise Test (speed)	IEC 60034(Part 2-1) [IEC 60034-1:2017, Cl. No. 8 & IEC 60034-2-1:2014, Cl. No. 6.1.3.2.1]

SCOPE OF ACCREDITATION

Laboratory Name :	ABB LOW VOLTAGE ROTATING MACHINE LAB., ABB INDIA LTD., 32 INDUSTRIAL AREA, NIT, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-10631	**Page No**	4 of 4
Validity	19/05/2022 to 18/05/2024	**Last Amended on**	-

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
52	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Temperature Rise Test (Torque)	IEC 60034(Part 2-1) [IEC 60034-1:2017, Cl. No. 8 & IEC 60034-2-1:2014, Cl. No. 6.1.3.2.1]
53	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Temperature Rise Test (Voltage)	IEC 60034(Part 2-1) [IEC 60034-1:2017, Cl. No. 8 & IEC 60034-2-1:2014, Cl. No. 6.1.3.2.1]
54	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Temperature Rise Test (Power)	IEC 60034(Part 2-1) [IEC 60034-1:2017, Cl. No. 8 & IEC 60034-2-1:2014, Cl. No. 6.1.3.2.1]
55	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Temperature Rise Test (Temp)	IEC 60034(Part 2-1) [IEC 60034-1:2017, Cl. No. 8 & IEC 60034-2-1:2014, Cl. No. 6.1.3.2.1]
56	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Three Phase Squirrel Cage Induction Motor [Power Output 0.12kW to 200kW]	Terminal Marking	IEC 60034(Part 8) [IS 12615:2018, Cl. No. 9 & IEC 60034(Part 8):2007]