

BUREAU OF INDIAN STANDARDS

Program of Work

ETD 15 : Rotating Machinery

Scope: To prepare standards on rotating electrical machines like induction, synchronous, motors, generators, dc machines and turbines including carbon brushes for electrical machines (with the exception of traction machines and rotating machinery coming under the purview of other Committees)

Liaison: **IEC TC-116 (O):** *Safety of motor-operated electric tools* **IEC TC-2 (P):** *Rotating machinery*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11537 : 1985 <i>Reviewed In : 2017</i>	Specification for centrifugal switch for single - Phase induction motors		-	Indigenous
2	IS 12065 : 1987 IEC 60034-9 <i>Reviewed In : 2019</i>	Permissible limits of noise levels for rotating electrical machines	March, 2019	1	Modified/Technically Equivalent
3	IS 12075 : 2008 <i>Reviewed In : 2018</i> IEC 60034-14 (1982)	Mechanical vibration of rotating electrical machines with shaft heights 56 mm and higher - Measurement, evaluation and limits of vibration severity (First Revision)	July, 2018	-	Modified/Technically Equivalent
4	IS 1231 : 2019 <i>IEC 60072</i>	Dimensions and Output Series of Foot Mounted Induction Motors — Frame Numbers 56 to 315 L (Fourth Revision)	-	-	Modified/Technically Equivalent
5	IS 12615 : 2018 <i>IEC 60034-30-1 : 2014</i>	Line operated three phase AC motors (IE Code) "Efficiency classes and performance specification" (Third Revision)	-	1	Modified/Technically Equivalent
6	IS 12642 : 1989 IEC 60778 <i>Reviewed In : 2019</i> Reaffirmed but not taken up for revision <i>IEC Report 778 (198-I)</i>	Brush - Holders for slip rings group R, type RA - Specification	March, 2019	-	Modified/Technically Equivalent
7	IS 12998 : 2024 1680 <i>1680</i>	Acoustics Test Code for the Measurement of Airborne Noise Emitted by Rotating Electrical Machines		-	Identical under dual numbering
8	IS 13364 (Part 1) : 1992 IEC 60034-1 <i>Reviewed In : 2018</i>	Ac generators driven by reciprocating internal combustion engines - Specification: Part 1 alternators rated up to 20 kVa		-	Modified/Technically Equivalent
9	IS 13364 (Part 2) :	Ac generators driven by		1	Modified/Technically

	1992 IEC 60341 Reviewed In : 2018 IEC : Pub 34-1- 1983 IS 4722 : 1968 BS 5000 Part 99-1974 (1981) ANSI C50. IO- 1977. NEMA MG 1.22-1	reciprocating internal combustion engines - Specification: Part 2 alternators rated above 20 kVa and up to 1250 kVa			Equivalent
10	IS 13466 : 1992 IEC 60136, 467, 773 Reviewed In : 2019 Reaffirmed but not taken up for revision iec Pub 136 (1986 Pub 467 (1974) IEC Pub 773 (1983)	Brushes for electrical machines - Specification		-	Modified/Technically Equivalent
11	IS 13525 : 1992 Reviewed In : 2019 JIS C 2802 : 1970	Flexible conductors for carbon brushes - Specification		-	Modified/Technically Equivalent
12	IS 13529 : 2021 IEC 60034-26 : 2006 60034-26:2006	ROTATING ELECTRICAL MACHINES PART 26 EFFECTS OF UNBALANCED VOLTAGES ON THE PERFORMANCE OF THREE-PHASE CAGE INDUCTION MOTORS		-	Modified/Technically Equivalent
13	IS 13555 : 1993 Reviewed In : 2019	Guide for selection and appltcation of 3 - Phase AC induction motors for different types of driven equipment	March, 2019	-	Indigenous
14	IS 13584 : 1993 IEC 413 Reviewed In : 2019 IEC -Pub 413 : 1972 , IEC Pub 773 : 1983	Brush materials for electrical machinery - Specification	March, 2019	-	Modified/Technically Equivalent
15	IS 13586 : 2023 60276: 2018 60276: 2018	Carbon Brushes Brush Holders Commutators and Slip-Rings Definitions and Nomenclature		-	Identical under dual numbering
16	IS 13937 (Part 1) : 1994 ISO 7574-1 Reviewed In : 2022 ISO 7574/1	Statistical methods of determining and verifying stated noise emission values of machinery and equipment: Part 1 general considerations and definitions	November, 2022	-	Identical under dual numbering
17	IS 13937 (Part 2) : 1994 ISO 7574-2 Reviewed In : 2017 ISO 7574/2	Statistical methods of determining and verifying stated noise emission values of machinery and equipment: Part 2 methods for stated values for individual machines		-	Identical under dual numbering
18	IS 13937 (Part 3) : 1994 ISO 7574-3 Reviewed In : 2022 ISO 7574/3	Statistical methods for determining and verifying stated noise emission values of machinery and equipment: Part 3 simple (Transition) method for stated values for batches of machines	November, 2022	-	Identical under dual numbering
19	IS 13937 (Part 4) : 1994	Statistical methods of determining and verifying stated noise emission	November, 2022	-	Identical under dual numbering

	ISO 7574-4 Reviewed In : 2022 ISO 7574/4	values of machinery and equipment: Part 4 methods for stated values for batches of machines			
20	IS 14195 : 1994 IEC 61015 Reviewed In : 2017 IECPub 1015: 1990 z	Brush - Holders for electrical machines - Guide to the measurement of the static thrust applied to brushes		-	Identical under dual numbering
21	IS 14196 : 1994 IEC 560 Reviewed In : 2023 IEC Pub 560 : 1977	Definitions and terminology of brush holders for electrical machines	March, 2023	-	Identical under dual numbering
22	IS 14197 : 2023 60193: 2019 60193: 2019	Hydraulic Turbines Storage Pumps and Pump-Turbines - Model Acceptance Tests		-	Identical under dual numbering
23	IS 14376 : 1996 IEC 136 Reviewed In : 2017 Reaffirmed but not taken up for revision IEC Pub 136 (IY86)	Brush holders for electrical machines - Specification		-	Modified/Technically Equivalent
24	IS 14377 : 1996 Reviewed In : 2017 IEEMA 8 : 1987	Specification for three - Phase induction motors for fans used in air - Conditioning and ventilation		-	Modified/Technically Equivalent
25	IS 14568 (Part 2) : 1998 IEC 72-2 Reviewed In : 2022 IEC 72-2 (1990)	Dimensions and output series for rotating electrical machines: Part 2 frame numbers 355 to 1000 and flange numbers 1180 to 2360	November, 2022	-	Identical under dual numbering
26	IS 14569 : 1999 Reviewed In : 2019 Reaffirmed but not taken up for revision	Commutators for electrical machines - Specification		-	Indigenous
27	IS 14578 : 1999 Reviewed In : 2019 Reaffirmed but not taken up for revision	Three - Phase induction motors for use in nuclear power plants - Specification	March, 2019	1	Indigenous
28	IS 14582 : 2021	Single-phase small ac electric motors for centrifugal pumps for agricultural applications		-	Indigenous
29	IS 14889 : 2000 Reviewed In : 2015	Copper tamping powder for carbon brushes - Specification	December, 2015	-	Indigenous
30	IS 15429 : 2004 Reviewed In : 2019	Storage, installation and maintenance of DC motors - Code of practice		-	Indigenous
31	IS 15880 : 2009 Reviewed In : 2019 IEC 60034-17	Three phase cage induction motors when fed from IGBT converters - Application guide		-	Identical under dual numbering
32	IS 15881 : 2009 Reviewed In : 2019	Three phase cage induction motors specifically designed for IGBT converter supply - Specification	June, 2019	-	Indigenous
33	IS 15999 (Part 7) : 2024 IEC 60034-7:2020 60034-7	ROTATING ELECTRICAL MACHINES Part 7: Classification of types of construction mounting arrangements and terminal box position (IM Code) (Second		-	Identical under dual numbering

		Revision)			
34	IS 15999 (Part 1) : 2021 IEC 60034-1: 2017 IEC 60034-1: 2017	Rotating electrical machines - Part 1 : Rating and performance		-	Identical under dual numbering
35	IS 15999 (Part 2/Sec 1) : 2023 60034-2-1 60034-2-1	Rotating Electrical Machines Part 2-1: Standard Methods for Determining Losses and Efficiency from Tests Excluding Machines for Traction Vehicles		-	Identical under dual numbering
36	IS 15999 (Part 3) : 2023 60034-3 60034-3	ROTATING ELECTRICAL MACHINES Part 3: Specific requirements for synchronous generators driven by steam turbines or combustion gas turbines and for synchronous compensators first revision		-	Identical under dual numbering
37	IS 15999 (Part 4/Sec 1) : 2023 60034-4-1 60034-4-1	ROTATING ELECTRICAL MACHINES Part 4 Electrically excited synchronous machine quantities Section 1 Test methods first revision		-	Identical under dual numbering
38	IS 15999 (Part 15) : 2017 IEC 60034-15 : 2009 IEC 60034-15 : 2009	Rotating Electrical Machines Part 15 Impulse Voltage Withstand Levels of Form-Wound Stator Coils for Rotating ac Machines		-	Identical under dual numbering
39	IS 15999 (Part 18/Sec 41) : 2018 IEC 60034-18-41 : 2014 IEC 60034-18-41: 201	Rotating electrical machines: Part 18 partial discharge free electrical insulation systems (Type I) used in rotating electrical machines fed from voltage converters Sec 41 qualification and quality control tests		-	Identical under dual numbering
40	IS 15999 (Part 18/Sec 42) : 2018 IEC 60034-18-41 : 2014 IEC 60034-18-42 : 20	Rotating Electrical Machines Part 18 Partial Discharge Free Electrical Insulation Systems (Type I) Used in Rotating Electrical Machines Fed From Voltage Converters Section 41 Qualification and quality control tests		-	Identical under dual numbering
41	IS 15999 (Part 20/Sec 1) : 2023 60034-20-1: 2002 60034-20-1: 2002	Rotating Electrical Machines Part 20-1: Control Motors Stepping Motors		-	Identical under dual numbering
42	IS 15999 (Part 26) : 2016 IEC 60034-26 : 2006 IEC 60034-26 : 2006	Rotating Electrical Machines Part 26 Effects of Unbalanced Voltages on the Performance of Three-Phase Cage Induction Motors		-	Identical under dual numbering
43	IS 2223 : 1983 IEC 60072 Reviewed In : 2017 IEC Pub 72 (1971)	Dimensions of flange mounted AC induction motors		2	Modified/Technically Equivalent
44	IS 2253 : 1974 IEC 34-7 Reviewed In : 2017 60034-7	Designations for types of construction and mounting arrangements of rotating electrical machines (First Revision)		-	Identical under dual numbering

45	IS 2254 : 1985 Reviewed In : 2017	Dimensions of vertical shaft motors for pumps (Second Revision)		-	Identical under dual numbering
46	IS 2968 : 1964 Reviewed In : 2017 Reaffirmed but not taken up for revision DIN 42923	Dimensions of slide rails for electric motors		1	Identical under dual numbering
47	IS 2972 (Part 1) : 1979 Reviewed In : 2017 Reaffirmed but not taken up for revision	Specification for textile motors: Part 1 loom motors (First Revision)		2	Indigenous
48	IS 2972 (Part 2) : 1979 Reviewed In : 2017 Reaffirmed but not taken up for revision	Specification for textile motors: Part 2 card motors (First Revision)		1	Indigenous
49	IS 4029 : 2010 Reviewed In : 2016	Guide for testing three phase induction motors (First Revision)	March, 2016	-	Indigenous
50	IS 4665 (Part 1) : 2023 60745-1: 2006 60745-1: 2006	Hand-Held Motor-Operated Electric Tools Safety Part 1: General requirements Second Revision		-	Identical under dual numbering
51	IS 4665 (Part 2/Sec 1) : 2023 60745-2-1 60745-2-1	Hand-Held Motor-Operated Electric Tools Safety Part 2 Particular requirements Section 1 drills and impact drills		-	Identical under dual numbering
52	IS 4665 (Part 2/Sec 2) : 2023 60745-2-2 60745-2-2	Hand-held motor-operated electric tools - Safety - Part 2 Particular requirements Section 2 screwdrivers and impact wrenches		-	Identical under dual numbering
53	IS 4665 (Part 2/Sec 3) : 2023 60745-2-3 60745-2-3	Hand-held motor-operated electric tools - Safety Part 2 Particular requirements Section 3 grinders polishers and disk-type sanders		-	Identical under dual numbering
54	IS 4665 (Part 2/Sec 5) : 2023 60745-2-5 60745-2-5	Hand-Held Motor-Operated Electric Tools Safety Part 2 Particular Requirements Section 5 Circular Saws		-	Identical under dual numbering
55	IS 4665 (Part 2/Sec 6) : 2023 60745-2-6 60745-2-6	Hand-Held Motor-Operated Electric Tools - Safety Part 2 Particular Requirements Section 6 Hammers		-	Identical under dual numbering
56	IS 4665 (Part 2/Sec 7) : 2023 60745-2-7 60745-2-7	Safety of Hand-Held Motor-Operated Electric Tools Part 2 Particular Requirements Section 7 Spray Guns for Non-Flammable Liquids		-	Identical under dual numbering
57	IS 4758 : 1968 ISO/R 495 Reviewed In : 2017 ISO Recommendation 495	Methods of measurement of noise emitted by machines		-	Modified/Technically Equivalent
58	IS 5422 : 1996 IEC 60034-3	Turbine type generators - Specification (First Revision)		-	Modified/Technically Equivalent

	Reviewed In : 2017 IEC Pub 34-3 (1988)				
59	IS/IEC 60034-5 : 2000 Reviewed In : 2018 IEC 60034 : PART 5	Rotating electrical machines: Part 5 degrees of protection provided by the integral design of rotating electrical machines (IP Code) - Classification	May, 2018	-	Identical under single numbering
60	IS/IEC 60034-8 : 2014 IEC 60034-8 : 2014 Reviewed In : 2018 IEC 60034-8: 2014	Rotating Electrical Machines Part 8 Terminal Markings and Direction of Rotation (Third Revision)	August, 2018	-	Identical under single numbering
61	IS/IEC 60034-27-4) : 2018 IEC 60034-27-4 : 2018 IEC 60034-27-4	Rotating Electrical Machines Part 27 Winding Insulation of Rotating Electrical Machines Section 4 Measurement of insulation resistance and polarization index		-	Identical under single numbering
62	IS 6362 : 1995 IEC 34-6 Reviewed In : 2022 IEC Pub 34-6 : 1991 zy	Designation of methods of cooling of rotating electrical machines (First Revision)	November, 2022	-	Identical under dual numbering
63	IS 7538 : 1996 Reviewed In : 2017	Three - Phase squirrel cage induction motors for centrifugal pumps for agricultural application - Specification (First Revision)		3	Indigenous
64	IS 7572 : 1974 Reviewed In : 2017 IS : 4029-1967 AIEE Publication IEEE No.. 114-19.58 NEMA Standard M.G. 1	Guide for testing single - Phase AC and universal motors		-	Modified/Technically Equivalent
65	IS 8151 : 1976 Reviewed In : 2017 BS 2655 : Part 2 . 1959	Specification for single - Speed three - Phase induction motors for driving lifts		2	Modified/Technically Equivalent
66	IS 8223 : 1999 IEC 60072 -2 Reviewed In : 2022 IEC 60072-2 (1990)	Dimensions and output series for rotating electrical machines (First Revision)	November, 2022	-	Identical under dual numbering
67	IS 8789 : 2021	Values of performance characteristics for three-phase induction motors with degree of protection 2X		-	Indigenous
68	IS 900 : 2019	Code of Practice for Storage, Installation and Maintenance of Induction Motors (Third Revision)	-	-	Indigenous
69	IS 9283 : 2013 Reviewed In : 2018	Motors for submersible pumpsets - Specification (Second Revision)	May, 2018	-	Indigenous
70	IS 9320 : 1979 Reviewed In : 2017 GOST : 183-1966 Electric machinery general technical requirements. Union of Soviet Socialist Republi	Guide for testing direct - Current (DC) machines	March, 2017	1	Modified/Technically Equivalent

71	IS 9582 (Part 1) : 1980 Reviewed In : 2018	Specification for single - Phase electric motors for definite purposes: Part 1 domestic laundry machine motors	March, 2018	1	Indigenous
72	IS 9670 : 1980 Reviewed In : 2019	Specification for direct current micromotor for cassette tape recorders and other applications	March, 2019	-	Indigenous
73	IS 9919 : 1999 Reviewed In : 2018 Reaffirmed but not taken up for revision	Guide for selection and use of carbon brushes in electrical rotating machines (First Revision)	February, 2018	-	Indigenous
74	IS 996 : 2009 Reviewed In : 2019 IEC 34-1 (1969 BS 170: 1962 JIS 4203-1973 BS 1608 : 1966	Single phase a.c. induction motors for general purpose (Third Revision)		2	Identical under dual numbering

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Preliminary Draft Standards

SI. No.	Doc No.	Title
1	ETD 15 (26175) Revision of: IS 9320:1979	Guide for testing direct - Current DC machines

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	ETD 15 (25587) Revision of: IS 12065:1987	Rotating Electrical Machines Part 9 Noise Limits
2	ETD 15 (25598) Revision of: IS 996:2009	SINGLE PHASE ac INDUCTION MOTORS FOR GENERAL PURPOSE
3	ETD 15 (25628)	Rotating electrical machines - Part 23 Repair overhaul and reclamation
4	ETD 15 (25631) Revision of: IS 15999:2021	Rotating electrical machines - Part 1 Rating and performance
5	ETD 15 (25633) Revision of: IS 15999:2023	Rotating electrical machines - Part 2-1 Standard methods for determining losses and efficiency from tests excluding machines for traction vehicles
6	ETD 15 (25634) Revision of: IS/IEC 60034:2000	Rotating electrical machines - Part 5 Degrees of protection provided by the integral design of rotating electrical machines IP code - Classification
7	ETD 15 (25957)	Line operated three phase AC motors IE Code 34 Efficiency classes and performance specification 34 Third Revision Amendment - 2

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	ETD 15 (17922)	LINE OPERATED A C MOTORS FOR SUBMERSIBLE PUMPSETS-SPECIFICATION THIRD REVISION

Finalized Draft Indian Standard

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SI. No.	Doc No.	Title
<i>No Records Found</i>		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	ETD 15 (21497) Revision of: IS 8151:1976	Single-Speed Three-Phase Induction Motors for Driving Lifts Specification Second Revision
2	ETD 15 (23815) Revision of: IS 12075:2008	Mechanical Vibration of Rotating Electrical Machines with Shaft Heights 56 Mm and Higher - Measurement Evaluation and Limits of Vibration Severity Second Revision

Total Published Standards:71 Total Standards Under development:11

Aspect Wise Report

Product : 34
 Code of Practices : 9
 Methods of Test : 14
 Terminology : 9
 Dimensions : 5
 System Standard : 0
 Safety Standard : 1
 Others : 0
 Service Specification : 0
 Process Specification : 0
 Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 10534 : 1983 ISO/DIS 6190 Reviewed In : 2017 ISO/DIS 6190	Method of measurement of airborne noise emitted by gas turbine installations
2	IS 12066 : 1987 Reviewed In : 2019 IEMA: 1-1978 IEMA	Specification for three - Phase induction motors for machine tools
3	IS 12615 : 2011 Identical	Energy Efficient Induction Motors - Three Phase Squirrel Cage
4	IS 12802 : 1989 IEC 34-1 Reviewed In : 2009	Temperature-rise Measurements Of Rotating Electrical Machines
5	IS 12824 : 1989 IEC 34-1 Reviewed In : 2009	Prelaminated particle boards from wood and other lignocellulosic material - Specification First Revision
6	IS 12998 (Part 1) : 1991 ISO 1680-1 Reviewed In : 2022 ISO 1680/1 :1986	Methods of measurement of airborne noise emitted by rotating electrical machinery Part 1 engineering method for free - Field conditions over a reflecting plane
7	IS 12998 (Part 2) : 1991 ISO 1680-2 Reviewed In : 2018 ISO 1680/2 :1987	Methods of measurement of airborne noise emitted by rotating electrical machinery Part 2 survey method
8	IS 13079 : 1991 Reviewed In : 2017 BS 5000 : Part 60 : 1982	Stepping motors - Specification
9	IS 13107 : 1991 IEC 279	Guide for measurement of winding resistance of an ac machine during operation at alternating voltage

	Reviewed In : 2013	
10	IS 14222 : 1995 IEC 3415 Reviewed In : 2017 IEC Pub 34-15 : 1990	Impulse voltage withstand levels of rotating a c machines with form - Wound stator coils
11	IS 15999 (Part 4) : 2017 IEC 60034-4 : 2008 IEC 60034-4 : 2008	Rotating electrical machines Part 4 methods for determining synchronous machine quantities from tests
12	IS 15999 (Part 9) : 2016 IEC 60034-9 : 2003 IEC 60034-9 : 2007	Rotating Electrical Machines Part 9 Noise Limits
13	IS 15999 (Part 14) : 2016 IEC 60034-14:2007	Rotating Electrical Machines Part 14 Mechanical Vibration of Certain Machines with Shaft Heights 56 mm and Higher- Measurement Evaluation and Limits of Vibration Severity
14	IS 2972 (Part 3) : 1979 Reviewed In : 2017	Specification for textile motors Part 3 spinning frame motors First Revision
15	IS 3003 (Part 1) : 1977 Reviewed In : 1991	Carbon brushes for electrical machines Part 1 Definitions and nomenclature
16	IS 3003 (Part 2) : 1977	Carbon brushes for electrical machines Part 2 Test methods for brush materials
17	IS 3003 (Part 3) : 1978	Carbon brushes for electrical machines Part 3 Dimensions and requirements
18	IS 3003 (Part 4) : 1978	Carbon brushes for electrical machines Part 4 Dimensions of chamfers bevels and terminations
19	IS 325 : 1996 IEC 60034-1 Reviewed In : 2012	Three-phase Induction Motors
20	IS 3682 : 1966 Reviewed In : 2017	Flameproof ac motors for use in mines
21	IS 4665 (Part 2) : 1984 Reviewed In : 2017 CEE Pub 20 II-1975 BS 2769: 1964	Specification for portable electric motor - Operated tools Part 2 specific requirements for tools
22	IS 4691 : 1985 Reviewed In : 2009	Rotating electrical Machines Part 5 Degrees of protection provided by enclosure for rotating electrical machinery
23	IS 4722 : 2001 IEC 60034-03 Reviewed In : 2007	Rotating Electrical Machines
24	IS 4728 : 1975 Reviewed In : 2007	Specification for wooden boxes for packaging of apples
25	IS 4729 : 1975	Measurement and evaluation of vibration of rotating electrical machines
26	IS 4889 : 1968 IEC 2 D Reviewed In : 2017 IEC document 2D (United Kingdom) 5 Comments from the British Committee on Document 2D (Secretariat)	Methods of determination of efficiency of rotating electrical machines
27	IS/IEC 60034-1 : 2004 Reviewed In : 2012 IEC 60034-1 : 2004	Rotating electrical machines Part 1 Rating and performance
28	IS 7132 : 1973 IEC 60034-1 Reviewed In : 2017 IEC Pub 34-1 (1969) IEC Pub 344 (1967) IEEE 115-1965	Guide for testing synchronous machines

29	IS 7306 : 1974 EC 60034-4 Reviewed In : 2017 IEC Publication 34-4 (1967) Rotating electrical machines, Part 4 : Methods for determining synchrono	Methods for determining synchronous machine quantities from tests
30	IS 7816 : 1975 Reviewed In : 2017 IEEE Code No. 43	Guide for testing insulation resistance of rotating machines
31	IS 9628 : 1980 Reviewed In : 2019 BS 5000 : Part 16 : 1972	Three-phase induction motors with type of protection n

Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 11537 : 1985 Reviewed In : 2017	Specification for centrifugal switch for single - Phase induction motors
2	IS 12642 : 1989 IEC 60778 Reviewed In : 2019 Reaffirmed but not taken up for revision IEC Report 778 (198-I)	Brush - Holders for slip rings group R type RA - Specification
3	IS 13364 (Part 1) : 1992 IEC 60034-1 Reviewed In : 2018	Ac generators driven by reciprocating internal combustion engines - Specification Part 1 alternators rated up to 20 kVa
4	IS 13364 (Part 2) : 1992 IEC 60341 Reviewed In : 2018 IEC : Pub 34-1- 1983 IS 4722 : 1968 BS 5000 Part 99-1974 (1981) ANSI C50. IO- 1977. NEMA MG 1.22-1	Ac generators driven by reciprocating internal combustion engines - Specification Part 2 alternators rated above 20 kVa and up to 1250 kVa
5	IS 13466 : 1992 IEC 60136, 467, 773 Reviewed In : 2019 Reaffirmed but not taken up for revision iec Pub 136 (1986 Pub 467 (1974) IEC Pub 773 (1983)	Brushes for electrical machines - Specification
6	IS 13525 : 1992 Reviewed In : 2019 JIS C 2802 : 1970	Flexible conductors for carbon brushes - Specification
7	IS 14195 : 1994 IEC 61015 Reviewed In : 2017 IEC Pub 1015: 1990 z	Brush - Holders for electrical machines - Guide to the measurement of the static thrust applied to brushes
8	IS 14376 : 1996 IEC 136 Reviewed In : 2017 Reaffirmed but not taken up for revision IEC Pub 136 (1Y86)	Brush holders for electrical machines - Specification
9	IS 14377 : 1996 Reviewed In : 2017 IEEMA 8 : 1987	Specification for three - Phase induction motors for fans used in air - Conditioning and ventilation
10	IS 14569 : 1999	Commutators for electrical machines - Specification

	Reviewed In : 2019 Reaffirmed but not taken up for revision	
11	IS 14578 : 1999 Reviewed In : 2019 Reaffirmed but not taken up for revision	Three - Phase induction motors for use in nuclear power plants - Specification
12	IS 14582 : 2021 ISO/IEC 39794-1:2019	Single-phase small ac electric motors for centrifugal pumps for agricultural applications
13	IS 14889 : 2000 Reviewed In : 2015	Copper tamping powder for carbon brushes - Specification
14	IS 15881 : 2009 Reviewed In : 2019	Three phase cage induction motors specifically designed for IGBT converter supply - Specification
15	IS 15999 (Part 1) : 2021 IEC 60034-1: 2017 ISO 26262-10:2018	Rotating electrical machines - Part 1 Rating and performance
16	IS 15999 (Part 3) : 2023 60034-3	ROTATING ELECTRICAL MACHINES Part 3 Specific requirements for synchronous generators driven by steam turbines or combustion gas turbines and for synchronous compensators first revision
17	IS 15999 (Part 20/Sec 1) : 2023 60034-20-1: 2002	Rotating Electrical Machines Part 20-1 Control Motors Stepping Motors
18	IS 2972 (Part 1) : 1979 Reviewed In : 2017 Reaffirmed but not taken up for revision	Specification for textile motors Part 1 loom motors First Revision
19	IS 2972 (Part 2) : 1979 Reviewed In : 2017 Reaffirmed but not taken up for revision	Specification for textile motors Part 2 card motors First Revision
20	IS 4665 (Part 1) : 2023 60745-1: 2006	Hand-Held Motor-Operated Electric Tools Safety Part 1 General requirements Second Revision
21	IS 4665 (Part 2/Sec 1) : 2023 60745-2-1	Hand-Held Motor-Operated Electric Tools Safety Part 2 Particular requirements Section 1 drills and impact drills
22	IS 4665 (Part 2/Sec 2) : 2023 60745-2-2	Hand-held motor-operated electric tools - Safety - Part 2 Particular requirements Section 2 screwdrivers and impact wrenches
23	IS 4665 (Part 2/Sec 3) : 2023 60745-2-3	Hand-held motor-operated electric tools - Safety Part 2 Particular requirements Section 3 grinders polishers and disk-type sanders
24	IS 4665 (Part 2/Sec 5) : 2023 60745-2-5	Hand-Held Motor-Operated Electric Tools Safety Part 2 Particular Requirements Section 5 Circular Saws
25	IS 4665 (Part 2/Sec 6) : 2023 60745-2-6	Hand-Held Motor-Operated Electric Tools - Safety Part 2 Particular Requirements Section 6 Hammers
26	IS 4665 (Part 2/Sec 7) : 2023 60745-2-7	Safety of Hand-Held Motor-Operated Electric Tools Part 2 Particular Requirements Section 7 Spray Guns for Non-Flammable Liquids
27	IS 5422 : 1996	Turbine type generators - Specification First Revision

	IEC 60034-3 Reviewed In : 2017 IEC Pub 34-3 (1988)	
28	IS 7538 : 1996 Reviewed In : 2017	Three - Phase squirrel cage induction motors for centrifugal pumps for agricultural application - Specification First Revision
29	IS 8151 : 1976 Reviewed In : 2017 BS 2655 : Part 2 . 1959	Specification for single - Speed three - Phase induction motors for driving lifts
30	IS 8789 : 2021 ISO/IEC TS 23167 : 2020	Values of performance characteristics for three-phase induction motors with degree of protection 2X
31	IS 9283 : 2013 Reviewed In : 2018	Motors for submersible pumpsets - Specification Second Revision
32	IS 9582 (Part 1) : 1980 Reviewed In : 2018	Specification for single - Phase electric motors for definite purposes Part 1 domestic laundry machine motors
33	IS 9670 : 1980 Reviewed In : 2019	Specification for direct current micromotor for cassette tape recorders and other applications
34	IS 996 : 2009 Reviewed In : 2019 IEC 34-1 (1969 BS 170: 1962 JIS 4203-1973 BS 1608 : 1966	Single phase a c induction motors for general purpose Third Revision