

Indian Standard

THREE-PHASE SQUIRREL CAGE INDUCTION MOTORS FOR CENTRIFUGAL PUMPS FOR AGRICULTURAL APPLICATION — SPECIFICATION

1 SCOPE

This standard covers three-phase squirrel cage induction motors for centrifugal pumps for agricultural application and where the power supply variation is between +6 and – 15 percent of the rated voltage provided the performance characteristic as specified here are suitable for the given application. This standard covers motors for voltages up to and including 650V and having output up to and including 15 kW.

2 REFERENCES

The standards listed in Annex A are necessary adjuncts to this standard.

ANNEX A

(Clause 2)

LIST OF REFERRED INDIAN STANDARDS

<i>IS No</i>	<i>Title</i>	<i>IS No</i>	<i>Title</i>
325 1996	Three-phase induction motors (<i>fifth revision</i>)	4691 1985	Degrees of protection provided by enclosures for rotating electrical machinery (<i>first revision</i>)
900 1992	Code of practice for installation and maintenance of induction motor	4728 1975	Terminal marking and direction of rotation for rotating electrical machinery (<i>first revision</i>)
1231 1974	Dimensions of three-phase foot-mounted induction motor (<i>third revision</i>)	6362 1995/ IEC Pub 34-6 1991	Designation of methods of cooling of rotating electrical machines
1271 1985	Thermal evaluation and classification of electrical insulation (<i>first revision</i>)	12065 1987	Permissible limits of noise levels of rotating electrical machines
1885 (Part 35) 1993	Electrotechnical vocabulary Part 35 Rotating machinery	12075 1987	Mechanical vibration of rotating electrical machines with shaft heights 56 mm and higher measurement evaluation and limits of vibration severity (<i>superseding</i> IS 4729)
2223 1983	Dimensions of flange mounted ac induction motors (<i>second revision</i>)	12360 1988	Voltage bands for electrical installations including preferred voltages and frequency (<i>superseding</i> IS 585)
2254 1985	Dimensions of vertical shaft motors for pumps (<i>second revision</i>)	12802 1989	Temperature-rise measurement of rotating electrical machines
3043 1987	Code of practice for earthing (<i>first revision</i>)	12824 1989	Type of duty and classes of rating assigned to rotating electrical machines
4029 1967	Guide for testing three-phase induction motors		