

(PREVIEW)

Indian Standard
DIMENSIONS OF THREE-PHASE
FOOT-MOUNTED INDUCTION MOTORS

1 SCOPE

1.1 This standard specifies the dimensions for foot-mounted 3-phase 50 Hz ac induction motors, of axle height ranging from 56 to 315 mm, intended for general purpose applications. This standard also specifies the standard nominal output for squirrel-cage induction motors having enclosures for type of protection IP 21, IP 22 and IP 44 or superior (*see IS: 4691-1968**) for different frame sizes on the basis of Class 'A', Class 'E' and Class 'B' insulation (*see IS : 1271-1958†*) and continuous rating In accordance with IS : 325-1970‡. It also covers the standard outputs and corresponding sizes of frame and shaft for slip ring (wound rotors) continuous rated motors, of axle height ranging from 160 to 315 mm, for a class of insulation not lower than Class 'E' (*see IS : 1271-1958†*) and having enclosures for type of protection IP 21, IP 22 and IP 44 or superior (*see IS : 4691-1968**) for supply voltage not exceeding 650 volts.

*Degrees of protection provided by enclosures for rotating electrical machinery

†Classification of insulating materials for electrical machinery and apparatus in relation to their thermal stability in service.

‡Specification for three-phase induction motors (*third revision*)