

(PREVIEW)

Indian Standard

SPECIFICATION FOR ELECTRICAL EQUIPMENT OF MACHINE TOOLS

PART 1 ELECTRICAL EQUIPMENTS OF MACHINES FOR GENERAL USE

1 SCOPE

1.1 This standard lays down general requirements in regard to the application of electrical components, such as control apparatus, motors, wiring, and accessories to machine tools, for connection to circuits which operate from a supply voltage up to and including 650 V, 50 Hz and higher frequencies.

NOTE — In case of higher frequencies all the electrical equipment shall be suitable for that frequency.

1.2 This standard applies to all electrical equipment and wiring furnished as part of a machine tool and originating at the machine-tool isolating switch. Any other necessary wiring should be installed in accordance with the requirements of the Indian Electricity Rules and any other regulations in force in the particular area.

1.3 This standard also applies to the electrical equipment of machine tools used in large series production (for example, transfer machines) and to electronic equipment as far as they are not modified by IS : 1356 (Part II)* and IS : 1356 (Part III)†

1.4 If the machining of certain materials is attended by special risks, additional precautions may be required. These additional precautions, however, are not covered in this standard.

*Electrical equipments of machine tools: Part II Electrical equipment of machines used in large series production lines. (Under preparation).

†Electrical equipment of machines Part III Electronic equipment of machine tools (Under preparation).