

COLLECTION OF CTL DECISIONS

Standard: IEC 61029-1, Ed. 1 / IEC 60745-1, Ed. 2	Subclauses: 19.11.2, 25.1 and 25.6	Sheet n 263 Page 1(1)
Subject: earthing connection through moving part of class I motor	Key words: <ul style="list-style-type: none">- earth connection,- moving part	Decision n.19 taken at 35th meeting/1998
<p>Question:</p> <p>We consider a class I tool employing a universal type motor. The motor shaft is conductively coupled to the earthed enclosure through steel ball bearings.</p> <p>In this case, shall the motor be of class II construction (motor shaft separated from the rotor windings and commutator by double or reinforced insulation) ?</p> <p>Decision:</p> <p>Yes, the accessible motor shaft of a class I tool shall be separated from the rotor windings and commutator by double or reinforced insulation (class II construction).</p> <p>Explanatory notes:</p> <p>The connection to the earthed frame through the bearing is not considered as a permanent and reliable connection required in subclauses 25.1, 26.1 of IEC60745-1 and subclause 25.1 of IEC61029-1.</p>		