

OSM/IN DECISION

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| Standard: | <i>IEC 60730-1, 4th edition</i> | Sub clause: | <i>7 Table 23 (20.3 of the previous edition) – Minimum creepage distances for basic insulation</i> | Sheet N°: | OSM/IN 273 |
| Subject: | Creepage distances | Key words: | | Meeting N°: | 25 (2015) |
| | | | | Inquiry: | OSM/IN(IT/UL International Italia)01/2013 |

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| Question: | IEC 60730 4th edition, Table 23 – Minimum creepage distance for basic insulation, refers to rated voltage in its first column, whereas Table 24 - Minimum creepage distance for operational insulation, refers to working voltage. Why this difference to evaluate creepage distances? |
| Proposal: | <p>Minimum CREEPAGE DISTANCES of Table 23 and Table 24 of IEC 60730 4th edition, shall be evaluated considering the following explanatory note 1), taken from IEC 60664-1, table F.4:</p> <p>1) This voltage is:</p> <ul style="list-style-type: none"> – for functional insulation, the working voltage, – for basic and supplementary insulation of the circuit energized directly from the supply mains (see 4.3.2.2.1), the voltage rationalized through Table F.3a or Table F.3b, based on the rated voltage of the equipment, or the rated insulation voltage, – for basic and supplementary insulation of systems, equipment and internal circuits not energized directly from the mains (see 4.3.2.2.2), the highest r.m.s. voltage which can occur in the system, equipment or internal circuit when supplied at rated voltage and under the most onerous combination of conditions of operation within equipment rating. |
| Remark: | - |
| Explanatory notes: | As indicated in IEC 60730-1 4th edition, section 20, “NOTE 1 The requirements and tests are based on IEC 60664-1 from which further information can be obtained”, therefore it is assumed that Table 23 and Table 24 of IEC 60730 4th edition are derived from table F.4 of IEC 60664-1 and relevant notes. |