

## ANNEX I

### PRINCIPAL ELEMENTS OF THE SAFETY OBJECTIVES FOR ELECTRICAL EQUIPMENT DESIGNED FOR USE WITHIN CERTAIN VOLTAGE LIMITS

#### 1. **General conditions**

- (a) the essential characteristics, the recognition and observance of which will ensure that electrical equipment will be used safely and in applications for which it was made, shall be marked on the electrical equipment, or, if this is not possible, on an accompanying document;
- (b) the electrical equipment, together with its component parts, shall be made in such a way as to ensure that it can be safely and properly assembled and connected;
- (c) the electrical equipment shall be so designed and manufactured as to ensure that protection against the hazards set out in points 2 and 3 is assured, providing that the equipment is used in applications for which it was made and is adequately maintained.

#### 2. **Protection against hazards arising from the electrical equipment**

Measures of a technical nature shall be laid down in accordance with point 1, in order to ensure that:

- (a) persons and domestic animals are adequately protected against the danger of physical injury or other harm which might be caused by direct or indirect contact;
- (b) temperatures, arcs or radiation which would cause a danger, are not produced;
- (c) persons, domestic animals and property are adequately protected against non-electrical dangers caused by the electrical equipment which are revealed by experience;
- (d) the insulation is suitable for foreseeable conditions.

#### 3. **Protection against hazards which may be caused by external influences on the electrical equipment**

Technical measures shall be laid down in accordance with point 1, in order to ensure that the electrical equipment:

- (a) meets the expected mechanical requirements in such a way that persons, domestic animals and property are not endangered;
- (b) is resistant to non-mechanical influences in expected environmental conditions, in such a way that persons, domestic animals and property are not endangered;
- (c) does not endanger persons, domestic animals and property in foreseeable conditions of overload.