

SCHEDULES

SCHEDULE 18

Regulation 36

Verification procedure for market surveillance purposes – electric motors and variable speed drives

Interpretation

1. In this Schedule “determined values” means the values of the relevant parameters as measured by the market surveillance authority in testing and the values calculated from these measurements.

Verification procedure

2. The market surveillance authority must apply the procedure set out in the following paragraphs when verifying the compliance of a product with these Regulations, using the measurement and calculation methods provided for in Schedule 17.

3. The market surveillance authority must initially test one single unit of the model of the product to be verified.

4. Subject to paragraph 5, the model conforms to these Regulations if all the following conditions are satisfied in respect of the tested unit—

- (a) the declared values and, where applicable, the values used to calculate the declared values, are not more favourable for the manufacturer, importer, or authorised representative than the corresponding measurements carried out pursuant to paragraph 1(2)(b)(vii) or paragraph 5(2)(d) of Schedule 1A to the 2010 Regulations;
- (b) the unit complies with the requirements set out in Schedule 16;
- (c) any product information published by the manufacturer, importer or authorised representative complies with the requirements of Schedule 16;
- (d) any product information published by the manufacturer, importer or authorised representative does not contain values more favourable for the manufacturer, importer or authorised representative than the declared values;
- (e) the determined values meet the verification tolerances set out in Table 30.

5.—(1) If a unit complies with all the conditions of paragraph 4 except sub-paragraph (e)—

- (a) for models that are produced in quantities of less than five per year, including equivalent models, the model and all equivalent models do not conform to these Regulations;
- (b) subject to paragraph 6(5), for models that are produced in quantities of five or more per year including equivalent models, the market surveillance authority must test three additional units of the model to be verified, or three units of equivalent models.

(2) A model subject to additional testing under this paragraph is deemed to comply with paragraph 4(e) if the arithmetical mean of the determined values for the three additional units meets the verification tolerances set out in Table 30.

(3) If a model fails to meet the test set out in sub-paragraph (2), the model and all equivalent models do not conform to these Regulations.

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6.—(1) For motors with a rated power output of 375 to 1,000 kW, the market surveillance authority may decide to undertake the verification procedure at the premises of manufacturers, authorised representatives or importers before the products are put into service.

(2) The market surveillance authority may undertake verification under sub-paragraph (1) using its own testing equipment.

(3) Where factory acceptance tests are planned for motors to which this paragraph applies, and such tests will assess whether the requirements of Schedule 16 are met, the market surveillance authority may decide to use witnessed testing during these tests to gather test results which can be used to verify compliance of the motor under investigation.

(4) The market surveillance authority may require a manufacturer, authorised representative or importer to disclose information on any planned factory acceptance tests relevant for witnessed testing.

(5) In a case to which this paragraph applies, the market surveillance authority must test one single unit of the model.

(6) If a requirement imposed by the market surveillance authority under sub-paragraph (4) is not complied with, the authority may determine that the model concerned does not conform to these Regulations.

7. Where a model has been designed to be able to detect it is being tested (for example by recognising test conditions or test cycles), and to react specifically by automatically altering its performance during the test with the objective of reaching a more favourable level for any of the parameters specified in these Regulations or included in the technical documentation or included in any of the documentation provided, the model and all equivalent models do not conform to these Regulations.

Verification tolerances

8.—(1) The verification tolerances set out in Table 30 must be used only by the market surveillance authority and only for the purposes of this Schedule.

(2) The manufacturer, authorised representative or importer of a product must not use the verification tolerances—

- (a) as allowed tolerances to establish the declared values;
- (b) in order to interpret the declared values with a view to achieving compliance; or
- (c) to communicate better performance.

(3) Where three additional units are tested in accordance with paragraph 5, the determined value for the purposes of Table 30 means the arithmetic mean of the values determined for those three additional units.

Table 30

Verification tolerances

<i>Parameters</i>	<i>Verification tolerances</i>
Total losses (1- η) for motors with a rated output equal to or above 0.12 kW and equal to or below 150 kW	The determined value must not exceed the value (1- η) calculated based on the declared η by more than 15 per cent.
Total losses (1- η) for motors with a rated output of above 150 kW and equal to or below 1,000 kW	The determined value must not exceed the value (1- η) calculated based on the declared η by more than 10 per cent.

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<i>Parameters</i>	<i>Verification tolerances</i>
Total losses for VSDs	The determined value must not exceed the declared value by more than 10 per cent.