

Technical Guidance Note TGN 30 on click measurements according to EN 55014-1

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1. Introduction

Harmonised Standard EN 55014-1 States the following in Clause 4.2.3.4

4.2.3.4 *Separation of clicks less than 200 ms*

For appliances which have a click rate less than 5, any two disturbances each having a maximum duration of 200 ms, shall be evaluated as two clicks even when the separation between the disturbances is less than 200 ms

The application of this Clause needs some clarification in order to avoid misunderstanding.

2. Guidelines:

Clarification of how to apply Clause 4.2.3.4 of EN 55014-1:2006 (often called "refrigerator rule")

The rule can be applied to any disturbance 0 to 400 ms long as long as the click rate is less than 5. The text "separation between the disturbances is less than 200 ms" shall not be considered.

This means that for e.g. an electronic soft starter that have a start sequence of up to 400 ms the "refrigerator rule" can be applied (as long as the click rate is less than 5) and the the sequence shall be evaluated as two clicks.

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