



**CTL
OPERATIONAL PROCEDURE**

CTL-OP 106

**ANNEX I
CTL ENQUIRY FORM**

Standard(s)-(incl. year): IEC 60335-1 ed.4.2 : (2006-09) IEC 60335-2-7 ed. 7.0 (2008-06)	Subclause(s): 27, 27.1	From:
Subject: Earthing	Key words: Earthing provision using water	To (CTL/ETF): N° 1

Question:

We have received the following product to be tested according to IEC 60335-2-7 Ed 7 Std.

Drum is earthed through a ball bearing in accordance with DSH 649, however it was observed that during the water extraction, water might be in contact with the heating element but not with the drum, thus in case of a failure in the insulation of heating element, extracted water might be in contact with a live part. To solve this issue, manufacturer proposes to use an earthed non-ferrous pin (copper) at the outlet.

Is this solution deemed to be in compliance with IEC 60335-2-7 Std? If so, how the measurement of Clauses 13 and 16 should be done?

Rationale:

IEC 60335-2-7 Standard does not establish certain conductivity to water or appropriate testing methods for leakage current measurement when water is used as conductor

Proposal (if any):

This construction is not acceptable since water can not be considered a permanently and reliably mean of connection to an earthing terminal.

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- CBTL: N° 145

- IECEE-CMC:

- IECEE Secretariat:

- IEC/TC:

- DATE: 2010-May-13

-NAME and SIGNATURE: Angel Cirocco

Approved by the Responsible NCB: IRAM

Fig. A

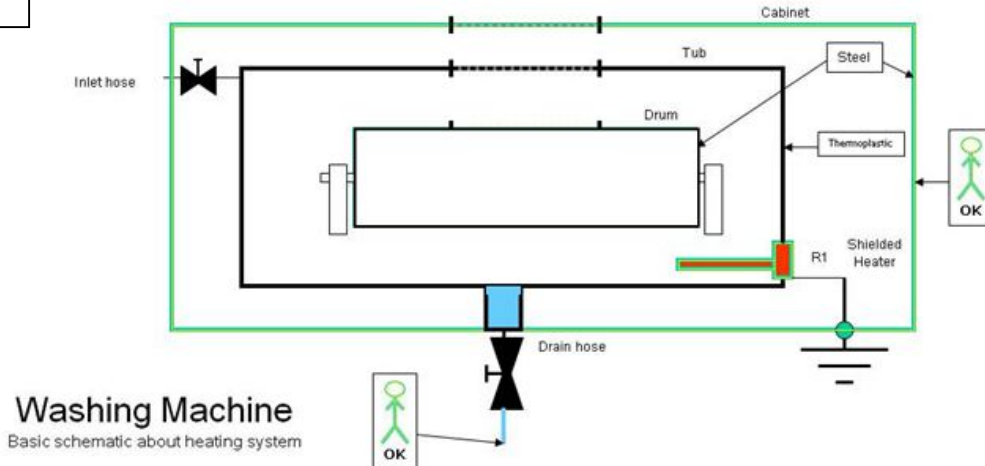
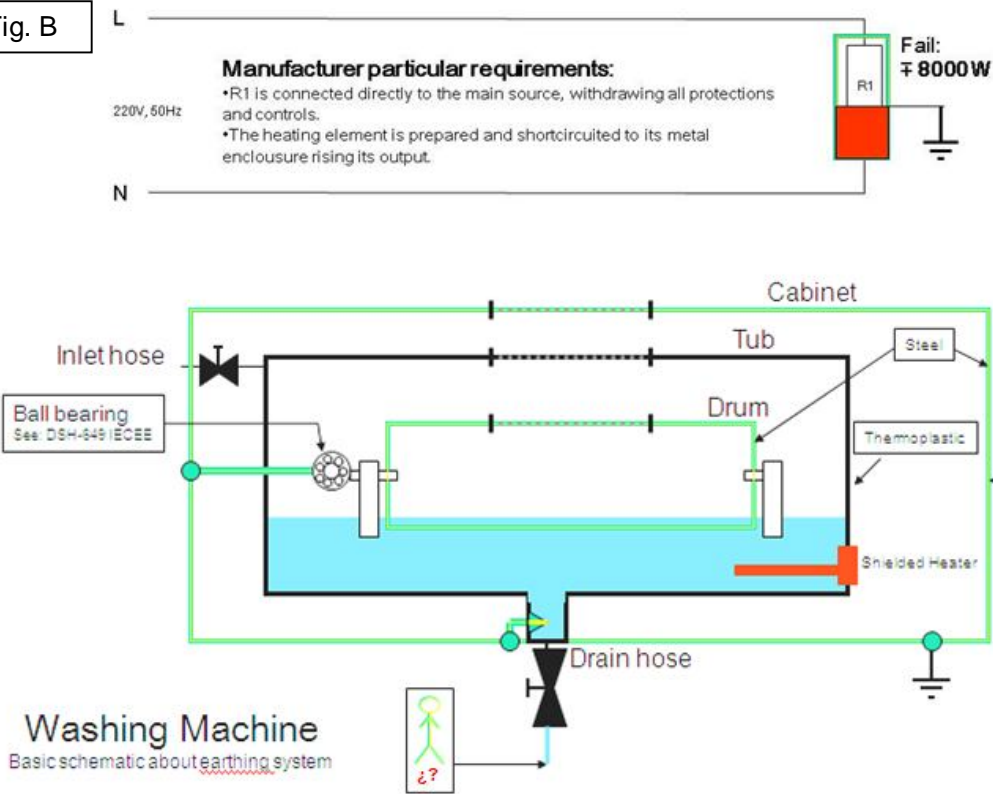


Fig. B



ground pin (cooper material) inside the filter

Grou

