

**22.108 Energizer** output characteristics shall be such that

- the impulse repetition rate shall not exceed 1 Hz;
- the **impulse duration** of the impulse in the 500  $\wedge$  component of the **standard load** shall not exceed 10 ms;
- for **energy limited energizers** the energy/impulse in the 500  $\wedge$  component of the **standard load** shall not exceed 5 J;

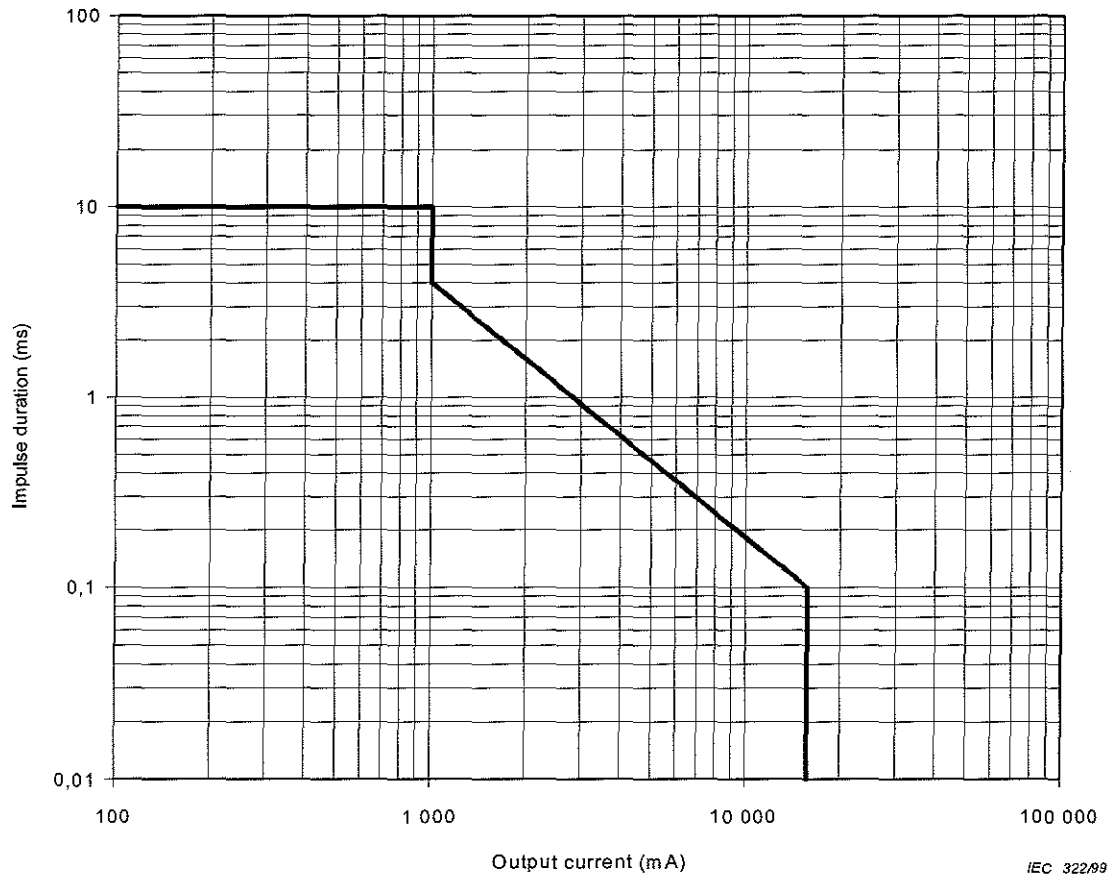
NOTE The energy/impulse is the energy measured in the impulse over the **impulse duration**.

- for **current limited energizers** the **output current** in the 500  $\wedge$  component of the **standard load** shall not exceed for

- an **impulse duration** of greater than 0,1 ms, the value specified by the characteristic limit line detailed in Figure 102;
- an **impulse duration** of not greater than 0,1 ms, 15 700 mA.

*Compliance is checked by measurement when the **energizer** is supplied with the voltage in 11.5, the **energizer** being operated under conditions of **normal operation** but with the **standard load** connected to its output terminals. When measuring the impulse repetition rate the **standard load** is not connected.*

*The measurements are made using a measuring arrangement with an input impedance consisting of a non-inductive resistance of not less than 1 M $\wedge$  in parallel with a capacitance of not more than 100 pF.*



NOTE The equation of the line relating impulse duration (ms) to output current (mA) for 1 000 mA < output current < 15 700 mA, is given by  $\text{impulse duration} = 41,885 \times 10^3 \times (\text{output current})^{-1,34}$

**Figure 102 – Current limited energizer characteristic limit line**