

# ON THE VIBRATION LEVEL DETERMINATION AT ELECTRIC MOTORS

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In the paper, it is effected the evaluation of electric motors, from the point of view of vibration level, by determining the effective value of vibration velocity, in accordance to the recommendations of Romanian and international standards. The vibration measurements have been effected at the "Electromotor" Company of Timișoara, on electric asynchronous motors. The aim of measurements was to establish a selection criterion for the motors, in two categories, "good" and "faulty", on the basis of admissible vibration level. As mathematical apparatus, it was applied the statistic calculus, in order to determine the  $N_i = f(v_{ef})$  dependences, where  $N_i$  is the number of measured motors of  $i$  type, and  $v_{ef}$  is the effective vibration velocity.

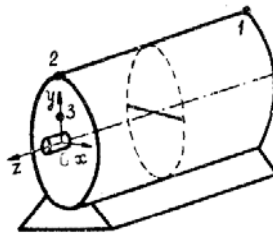


Fig.1. Location of vibration measure points

The dependences  $N_i = f(v_{ef})$  were drawn (fig. 2), permitting the determination of value  $v_{ef}^*$  which separates the fields of "good" and "faulty" motors.

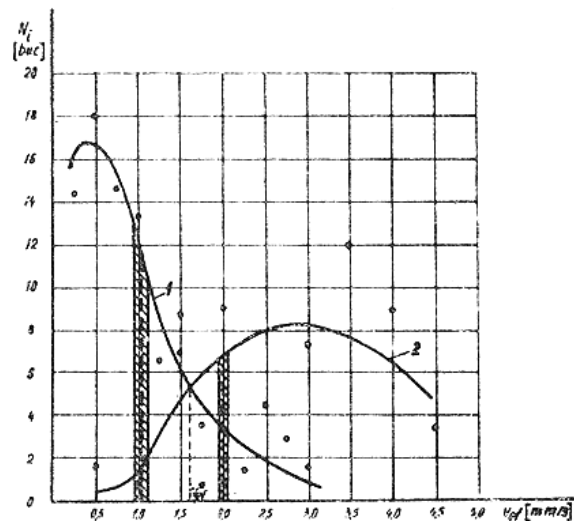


Fig.2.  $N_i = f(v_{ef})$  diagram

## REFERENCES (SELECTIVE)

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