



SLOVENSKI STANDARD
SIST IEC 60196:2002

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Standardne frekvence IEC

IEC standard frequencies

Fréquences normales de la CEI

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ICS:

29.020	Elektrotehnika na splošno	Electrical engineering in general
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC STANDARD FREQUENCIES

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote this international unification, the IEC expresses the wish that all National Committees having as yet no national rules, when preparing such rules, should use the IEC recommendations as the fundamental basis for these rules in so far as national conditions will permit.
- 4) The desirability is recognized of extending international agreement on these matters through an endeavour to harmonize national standardization rules with these recommendations in so far as national conditions will permit. The National Committees pledge their influence towards that end.

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PREFACE

This Recommendation was prepared by IEC Technical Committee No. 8, Standard Voltages, Current Ratings and Frequencies.

Drafts were discussed at meetings held in Scheveningen in 1952, in Philadelphia in 1954 and in Stockholm in 1958. After this latter meeting, it was decided that a draft should be submitted to the National Committees for approval under the Six Months' Rule in June 1960.

Comments received on the Six Months' Rule draft were discussed at the meetings held in Interlaken in 1961 and in Bucharest in 1962. After this latter meeting, draft amendments were submitted to the National Committees for approval under the Two Months' Procedure in May 1963.

The following countries voted explicitly in favour of publication :

Austria	Japan
Belgium	Netherlands
Canada	Norway
Czechoslovakia	Romania
Denmark	Sweden
Finland	Switzerland
France	Turkey
Germany	Union of Soviet Socialist Republics
Italy	United Kingdom
	United States of America

IEC STANDARD FREQUENCIES

1. Scope

The standard frequencies are the frequencies to be adopted for single-phase and three-phase a.c. systems, for installations in ships, for a.c. traction systems, for tools, for the rayon industry and for aircraft.

This standardization is limited to frequencies up to 10 000 Hz (c/s).

2. Table of standard frequencies

Systems and installations in ships	Traction	Tools (see Note 3)		Rayon industry		Aircraft
		Series I 50 Hz (c/s)	Series II 60 Hz (c/s)	Series I 50 Hz (c/s)	Series II 60 Hz (c/s)	
50	16 ² / ₃	<u>50</u>	60			
60	50	<u>100</u>		100	120	
	60	<u>150</u>	180			
		<u>200</u>				
		<u>250</u>				
		<u>300</u>				
		<u>400</u>				400
		<u>500</u>				
		600	720			
		750				
		<u>1 000</u>	1 000			
		1 200	1 440			
		1 500				
		<u>2 000</u>				
			2 160			
		2 400	2 880			
		3 000				
			3 420			
		<u>4 000</u>				
		8 000				
		<u>10 000</u>				

Notes 1) — When the frequencies are produced by rotating sets with induction motors, the real frequencies will be slightly lower than the values shown.

2) — The values underlined in the Series I (50 Hz (c/s)) for tools are recommended as preferred values.

3) — The present Recommendation is not applicable to the circuits of control devices of machine tools when these circuits form part only of a closed assembly peculiar to one machine-tool or to a combination of such machines.