

COLLECTION OF CTL DECISIONS

Standard: GENERALITY	Sub clause: ---	Sheet n. 251A Page 1(2)
Subject: Measurement accuracy and tolerances	Key words: - accuracy - tolerance	Decisions n. 7...12 taken at 33rd meeting/1996

Instrument accuracy limits

Measurement values stated in a CB Test Report shall be made with instruments with accuracies within the limits stated below:

<u>Parameter</u>	<u>Range</u>	<u>Instrument accuracy of Measuring Range</u>
Voltage		
- Up to 1000 V	up to 1 kHz	± 1,5%
	1kHz up to 5 kHz	± 2%
	5 kHz up to 20 kHz	±3%
	20 kHz and above	± 5%
- <u>1000 V and above</u>	dc up to 20 kHz	± 3%
	20 kHz and above	± 5%
Current		
- <u>Up to 5 A</u>	dc up to 60 Hz	± 1,5%
	60 Hz up to 5 kHz	± 2,5%
	5 kHz up to 20 kHz	± 3,5%
	20 kHz and above	± 5%
	5 A and above dc up to 5 kHz	± 2,5%
	5 kHz up to 20 kHz	± 3,5%
	20 kHz and above	± 5%
Leakage current		
- <u>up to 30 mA</u>	50/60 Hz	± 3,5%
- <u>30 mA and above</u>	50 Hz - 5 kHz	± 5%
Power (50/60 Hz)		
	up to 1 W	± 20 mW
	above 1 W and up to 3 kW	± 3%
	up to 3 kW above 3 kW	± 5%
Power Factor (50/60 Hz)		
		± 0,05
Frequency		
	up to 10 kHz	± 0,2%
Resistance		
	1 mΩ up to 100 mΩ and above 1 MΩ	± 5%
	above 1 TΩ	± 10%
	for all other cases	± 3%

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Subject: Measurement accuracy and tolerances	Key words: - accuracy - tolerance	Decision n. 7...12 taken at 33rd meeting/1996
Instrument accuracy limits		
Measurement values stated in a CB Test Report shall be made with instruments with accuracies within the limits stated below:		

<u>Parameter</u>	<u>Range</u>	<u>Instrument accuracy of Measuring Range</u>
Temperature ¹²	below 100° C	± 2° C
	100° C up to 500° C	± 3%
Time	10 ms up to 200 ms	± 5%
	200 ms up to 1 s	± 10 ms
	1 s and above	± 1%
Linear dimensions	up to 1 mm	± 0,05 mm
	1 mm up to 25 mm	± 0,1 mm
	25 mm and above	± 0,5%
Mass	above 10 g and up to 100 g	± 1%
	100 g up to 5 kg	± 2%
	5 kg and above	± 5%
Force	for all values	± 6%
Mechanical energy	for all values	± 10%
Torque		± 10%
Angles		± 1 degree
Relative humidity	30% to 95% RH	± 6% RH
Barometric air pressure		± 0,01 MPa
Gas & fluid pressure	for static measurement	± 5%

¹ Thermocouple not included. Thermocouples type K, premium grade, are recommended.

² Not for measurements related to relative humidity.