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IEC 60364-4-44	2003	Electrical installations of buildings -- Part 4-44: Protection for safety - Protection against voltage disturbances and electromagnetic disturbances (IEC 60364-4-44:2001+A1:2003)
IEC 60364-5-53	2002	Electrical installations of buildings -- Part 5-53: Selection and erection of electrical equipment - Isolation, switching and control (IEC 60364-5-53:2001 + A1:2002)
IEC 60038	1997	IEC standard voltages (IEC 60038:1983 + A1:1994 + A2:1997)
IEC 60050-161	1998	International Electrotechnical Vocabulary Chapter 161: Electromagnetic compatibility (IEC 60050-161:1990 +am1:1997 + am2:1998)
UNIPEDE 91 en 50.02		Voltage dips and short interruptions in public medium voltage electricity supply systems

2 Low-voltage supply characteristics

2.1 Power frequency

The nominal frequency of the supply voltage shall be 50 Hz. Under normal operating conditions the mean value of the fundamental frequency measured over 10 s shall be within a range of

- for systems with synchronous connection to an interconnected system

50 Hz \pm 1 %	(i.e. 49,5 ... 50,5 Hz)	during 99,5 % of a year,
50 Hz + 4 %/- 6 %	(i.e. 47 ... 52 Hz)	during 100 % of the time.
- for systems with no synchronous connection to an interconnected system (e.g. supply systems on certain islands)

50 Hz \pm 2 %	(i.e. 49 ... 51 Hz)	during 95 % of a week,
50 Hz \pm 15 %	(i.e. 42,5 ... 57,5 Hz)	during 100 % of the time.

2.2 Magnitude of the supply voltage

The standard nominal voltage U_n for public low voltage is:

- for four-wire three phase systems:
 $U_n = 230$ V between phase and neutral,
- for three-wire three phase systems:
 $U_n = 230$ V between phases.

NOTE: In low voltage systems declared and nominal voltage are equal.

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