



LF phenomena in mains power systems (harmonics & flicker)

Description:

Testing station for the measurement of conducted emissions and immunity to interference in the field of mains phenomena, for testing industrial equipment and components, as well as plug-in electric or hybrid vehicles.

Technical data:

Useful frequency range from DC to 2 kHz

Oscilloscopes up to 10 GS/s and 1 GHz analogue bandwidth

Regenerative, 3-phase source / sink (f = 16...500 Hz) up to 63 A/400 V AC supply (max. 45 kVA) up to 75 A/400 V DC supply (max. 30 kW)

Measurement of voltage quality according to EN 61000-4-30, class A

Emission measurements according to standards, such as:

EN 61000-3-2 harmonic current

emissions (input current ≤16 A per phase)

voltage changes, voltage fluctuations and flicker in public low-voltage supply EN 61000-3-3

systems, for equipment with rated current ≤ 16 A per phase

voltage changes, voltage fluctuations and flicker in public low-voltage supply EN 61000-3-11

systems - Equipment with rated current ≤ 75 A

EN 61000-3-12 harmonic currents produced by equipment connected to public low-voltage

systems with input current >16 A and ≤ 75 A per phase

Immunity measurements according to standards, such as:

EN 61000-4-11 Voltage dips, short interruptions and voltage variations immunity tests EN 61000-4-13 Harmonics and inter-harmonics including mains signalling at a.c. power port,

low frequency immunity tests

EN 61000-4-14 Voltage fluctuation immunity test for equipment with input current not

exceeding 16 A per phase

Unbalance, immunity test for equipment with input current not exceeding 16 A EN 61000-4-27 per phase

Variation of power frequency, immunity test for equipment with input current EN 61000-4-28

not exceeding 16 A per phase

EN 61000-4-30 Power quality measurement methods

Issued: 01/2022

EMC Test NRW GmbH Emil-Figge-Straße 76 44227 Dortmund Germany

Phone: +49 231 99967 850

info@emc-test.de







EN 61000-4-34

Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase

Issued: 01/2022

