

Product Information

Motor Variac type MV26xx and MV3P26xx for tests according to IEC/EN 61000-4-11



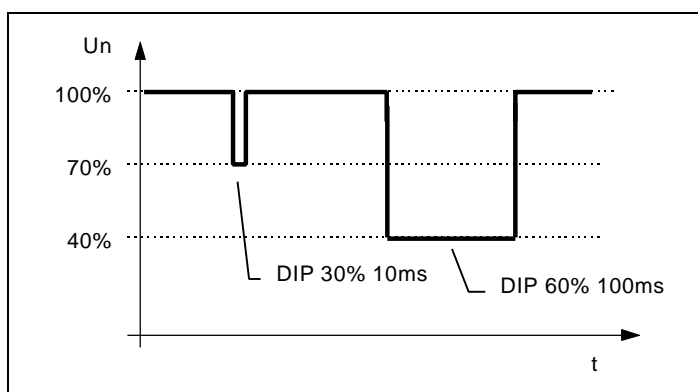
The motor variac can be used to simulate power supply failures such as undervoltage, overvoltage, voltage interruptions and voltage variations.

The basic standard IEC/EN 61000-4-11.

1. Voltage interruptions (DIPS)

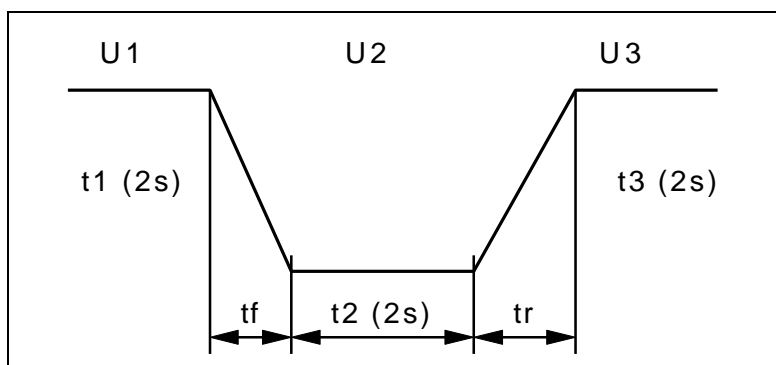
Voltage interruptions will cause a reduction of the power supply voltage for a certain period of time. See fig. 1: Three different test levels are required:

- Reduction by 100% to 0% of the nominal voltage
- Reduction by 60% to 40% of the nominal voltage
- Reduction by 30% to 70% of the nominal voltage



2. Voltage variation

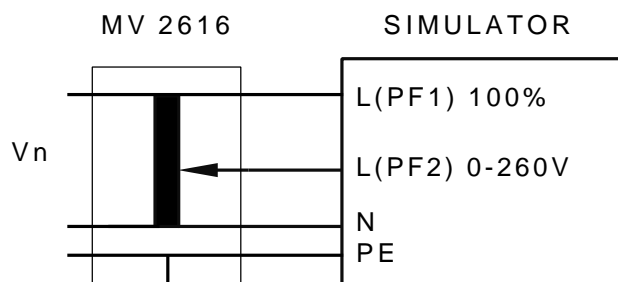
Additionally it is possible to drive certain functions of variation, which also are required in IEC 61000-4-11. These functions can easily be programmed within the simulators itself or within the related windows software.



The motor variac can be used as an accessory for the following generators:

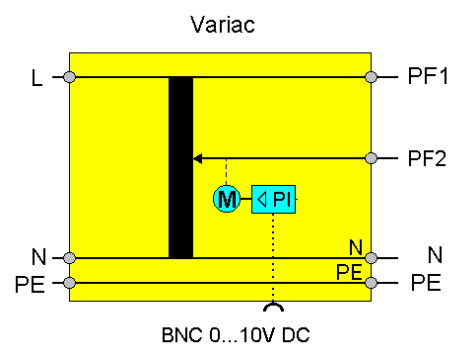
- PFS 500
- PFS 503
- UCS 500

Power connection between transformer and simulator:



- The unit has to be connected at the rear part of the simulator.
- For connection safety laboratory cables shall be used.

Transformer: Motorvariac MV.....



The standard types of transformers can be listed as follows:

MV2616	Single phase	Maximum 250V / 16A
MV2632	Single phase	Maximum 250V / 32A
MV3P2616	Three phase	Maximum 3x450V / 16A
MV3P2625	Three phase	Maximum 3x450V / 25A
MV3P2632	Three phase	Maximum 3x450V / 32A
MV3P2663	Three phase	Maximum 3x450V / 63A

3. Technical data

Input:

Voltage Vin: max. 250V or 3 x 440V
 Frequency 50/60Hz

Output:

Voltage V_{out} : 0 - 270V or 3 x 0 - 465V for channel PF2
 additionally $V_{out} = V_{in}$ for channel PF1
 Current max: 16A, 32A or 63A
 Power 0 - 8.64 kVA (single phase) or 0 - 50.74 kVA (three phase)

Control

Main switch On/Off for the output voltages
 Control voltage analogue 0 - 10V DC for 0-270V output voltage
 Time 0..100% < 2s

Dimensions and weight

Dimensions 19" 6HE 266x485x400mm (h x b x d) for the MV2616
 Weight app 27 kg (for MV2616)
 Power supply 115/230V
 Fuse 20A (PF1), 20A (PF2)
 Environment T_{max} 40°C

- **MV2632, MV3P2616, MV3P2632 are designed for rack mounting.**
- **MV3P2663 is mounted in a separate housing 120cm x 80cm x 40cm (L x H x W).**