

VARIAC NX 1-260-XX SERIES

VARIABLE TRANSFORMERS FOR VOLTAGE DIPS, SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS



FOR TESTS ACCORDING TO ...

- > EN 61000-4-11
- > EN 61000-4-8
- > EN 61000-6-1
- > EN 61000-6-2
- > IEC 61000-4-11
- > IEC 61000-4-8


MOTOR VARIAC NX 1-260-XX SERIES

The single phase motor variacs of the NX 1-260-XX series allow to steplessly adjust the EUT supply voltage from 0V to 260 V (280 V) when supplied by a 230 V mains supply voltage. By means of the variac NX 1-260-xx series tests as required in the standard IEC / EN 61000-4-11 (voltage dips and short interruptions as well as the optional voltage variation) can be performed adjusting the voltage to any voltage level. Apart from this the motor variac is used for power-frequency magnetic field tests as per IEC / EN 61000-4-8.

HIGHLIGHTS

- > **Voltage range: 0 up to 280 V @230 V**
- > **Max. current: 16 A cont., 40 A during > 3 s**
- > **Frequency: 50 Hz/60 Hz**
- > **Output voltage control: 0 - 10 VDC**
- > **Fast slew rate, < 2 seconds (full range)**
- > **High inrush current capability**
- > **Steplessly adjustable output voltage**
- > **Able to compensate mains supply variation**

APPLICATION AREAS

-  RENEWABLE ENERGY
-  TELECOM
-  INDUSTRY
-  MEDICAL
-  RESIDENTIAL

TECHNICAL DETAILS

BENEFITS

MOTOR VARIAC NX 1-260-XX SERIES - STEPLESSLY VARIABLE VOLTAGE SETTING

Controlled by a DC driver the output of the variac NX 1-260-xx motor variac is steplessly adjustable to meet various purposes of testing. Performing voltage dips the voltage level can be adjusted to any level and therefore covers a wider range of standard requirements apart from the classic 40%/70%/80% dips levels known from IEC/EN 61000-4-11. Moreover, by means of the variac NX 1-260-xx series the option voltage variation test specified by IEC/EN 61000-4-11 can be performed as well.

Magnetic field testing at power-frequency as per IEC/EN 61000-4-8 require to adjust the current flowing through the magnetic field coil. The variac NX 1-260-xx series supplies the primary voltage to the current transformer (additional option for power-frequency magnetic fields) and the magnetic field can be adjusted precisely.

SINGLE PHASE MOTOR VARIACS, VARIAC NX 1-260-XX SERIES

MODEL OVERVIEW

variac NX 1-260-16	Single phase motor variac, 0 - 260 V, 16 A, @230 V, 0 - 130 V, 16 A, @115 V
variac NX 1-280-16	Single phase motor variac, 0 - 280 V, 16 A, @230 V
variac NX 1-260-32	Single phase motor variac, 0 - 260 V, 32 A, @230 V, 0 - 130 V, 32 A, @115 V

TECHNICAL DATA

VARIAC NX 1-260-16, 1-PHASE MOTOR VARIAC, 16 A

Input voltage	Max. 250 V
Frequency	50 Hz/60 Hz
Output voltage	0 - 130 V @115 V, 0 - 260 V @230 V, 0 - 275 V @250 V
Output current	Max. 16 A (variac NX1-260-16)
Output power	0 to 4,160 VA

VARIAC NX 1-280-16, 1-PHASE MOTOR VARIAC, 16 A

Standard	GOST R 51317.4.11-99
Input voltage	Max. 250 V
Frequency	50 Hz/60 Hz
Output voltage	0 - 280 V @230 V
Output current	Max. 16 A
Output power	0 - 4,480 VA

VARIAC NX 1-260-32, 1-PHASE MOTOR VARIAC, 32 A

Input voltage	Max. 250 V
Frequency	50 Hz/60 Hz
Output voltage	0 - 130 V @115 V, 0 - 260 V @230 V, 0 - 275 V @250 V
Output current	Max. 32 A
Output power	0 - 8,320 VA

TECHNICAL DETAILS

TECHNICAL DATA

OUTPUTS

Output PF1	Nominal mains supply voltage
Output PF2	0 V - maximum output voltage (depending on the model and supplied mains supply voltage)
Output connectors	4 mm safety lab connectors PF1, PF2, Neutral and PE

CONTROLS

Mains switch	On/Off for the output voltages
Control voltage	Analog 0 - 10 VDC (0 V to max. output voltage)
Slew rate	< 2 seconds, full range

GENERAL DATA VARIAC NX 1-260-16 / VARIAC NX 1-280-16

Dimensions	19" / 6 HU 266 mm x 485 mm x 400 mm (HxLxW)
Weight	approx. 27 kg
Supply voltage	115/230 V
Fuses	20 A (PF1), 16 A (PF2)

VARIAC NX 1-260-32

Dimensions	Rack mounted in 19" rack or mounted into a separate cubicle 680mm x 600mm x 410mm (HxLxW)
Weight	approx. 58 kg
Supply voltage	115/230 V
Fuses	35 A (PF1), 35 A (PF2)

ENVIRONMENT

Temperature	10 °C to 35 °C
Humidity	30 % to 75 %, non condensing
Atmospheric pressure	86 kPa (860 mbar) to 106 kPa (1,060 mbar)

COMPETENCE WHEREVER YOU ARE



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