

Three-phase Voltage Dip Simulation Generator VDS-11XXB Series [Introduction]

VDS-11XXB Three-phase AC Voltage Dip and Variation Simulator is a highly reliable and high-p recision testing device specifically designed for the characteristics and requirements of voltage tran sient and short-duration interruption immunity tests for three-phase electrical equipment. The performance of this device meets the standards of IEC 61000-4-11, 34 and GB/T 17626.11, 34.

The VDS-11XXB series of products satisfies the requirements for phase angle variation stipulate d in the standards, and boasts a compact size and light weight. It can achieve a maximum voltage of 690V and a maximum current of 200A. If needed, customized testing specifications of 400A and 114 0V are available.

Compliance Standards

IEC 61000-4-11 \ IEC 61000-4-34 \ EN 61000-4-11 \ EN 61000-4-34 \ GB/T 17626.11 \ GB/T 17626.

Application Fields

Industrial equipment, electrical meters, medical devices, lighting appliances, communication trans mission equipment, audio-visual equipment, low-voltage electrical appliances, electronic compone nts. electric tools. information technology equipment, instrumentation.

Technical Features

- Meets the testing requirements of IEC 61000-4-11/-34 and GB/T 17626.11/.34;
- ◆ Features a full-color touchscreen for interface programming control, IEC level setting, and realtime display of test waveforms, voltage, and current parameters;
- Designed with an expandable modular structure, allowing not only standalone operation of the main unit but also expansion for universal power grid simulation;
- ◆ Fully compatible with both 50 Hz and 60 Hz, with automatic frequency and voltage detection, calculation, and adjustment;
- Comes standard with an RS485 control interface for upper computer control;
- lacktriangle Excellent voltage switching characteristics (switching time less than 5 μ s) to meet standard requirements.

Parameter List

| Specification | VDS-1132B | 1110B | 1120B | |
|---|--|--|--|--|
| Interference Type | Three-phase, AC 380 V/32 A (or 690 V/32 A) | Three-phase, AC 380 V /100 A (or 690 V/100 A) | Three-phase, AC 380 V /200 A (or 690 V/200 A) | |
| Power Grid Frequency | 50 Hz/60 Hz | | | |
| Voltage for Dip Test | Single-phase: Arbitrarily set from 0-220 V (with 2.5% steps) Three-phase: Arbitrarily set from 0-380 V (with 2.5% steps) | | | |
| The overshoot variation of the voltage at the output terminals of the generator under rated load conditions | ≤ 5%UT | | | |
| Phase relationship between voltage dips and interruptions and power supply frequency | < ±10° | | | |
| Voltage Interruption Mode | Voltage interruption can be selectively applied to one, two, or all three phases, or simultaneously to all phases | | | |
| Voltage Dip Mode | Voltage Dip on Phase-to-Neutral Line Voltage Dip on Phase-to-Phase Lin e | | | |
| Inrush Current | ≥ 500 A | ≥ 1000 A | ≥ 1000 A | |
| Initial Phase of Dip (or Rise) | 0 to 359° (with 1° steps) | | | |
| Final Phase of Dip (or Rise) | 0 to 359° (with 1° steps) | | | |
| IEC Standard Test Voltage | 0%, 40%, 70%, 80%, 120% EUT | | | |
| Number of Cycles Sustained During Dip (or Rise) | 0.1 to 9999 cycles (for both 50 Hz and 60 Hz) | | | |
| Number of Cycles Between Dips (or Rises) | 5 to 9999 cycles (for both 50 Hz and 60 Hz) | | | |
| Number of Experiments | 1 ~ 60000 times | | | |
| General Parameters | | | | |



to provide you with the most professional planning and provide comprehensive after-sales service.

| Operating Power Supply | AC 220 V/16 A | | |
|-------------------------|---|------|------|
| Display Interface | Touchscreen Display | | |
| Host Computer Interface | RS485/RJ45 | | |
| Size | 6 U | 22 U | 22 U |
| Weight | 75 kg | | |
| Temperature | 15°C~ 35°C (Operating Conditions) | | |
| Humidity | 30% ~ 60%(Operating Conditions) | | |
| Atmospheric Pressure | 86 kPa ~ 106 kPa | | |
| Standard Configuration | Main unit, test cables, power cord, fuse, test report, and instruction manual | | |