

Voltage variation / PFMF

VMT/VVT/MFT series



As per

- > EN/IEC 61000-4-8
- > EN/IEC 61000-4-11
- > GB/T 17626.8
- > GB/T 17626.11

Description

VVT/VMT/MFT series can be equipped with CCS simulator to produce voltage dip, interruption and variation to conduct automatic test. Test system can be communicated by Ethernet bus and controlled by EMSLab.

Features

- > Electromagnetic relay protection if voltage or current more than rated value
- > Protection function for over temperature
- > CN25 bus for connection
- > Programmable set for voltage, polarity and phase angle by software to save time

Industries

- | | |
|-----------------|--------------------|
| > Communication | > IT |
| > Telecom | > Military |
| > Medical | > Avionics |
| > Broadcast | > New energy |
| > Railway | > Electric Vehicle |

General Data	
Power supply	AC 110V/220V, $\pm 10\%$, 50/60Hz
Fuse	6A
Max. power consumption	50W
External control	25 pin parallel line
Working indicator	LED display on front panel
Grounding connection	Flat grounding line
EUT power injection	4mm banana line
Output mode	1m coaxial cable
Dimension	19" /6U
Weight	Approx. 68kg (different models have different weight)
Temperature	15–35°C
Humidity	45%–75%
Air pressure	86kPa–106kPa

Power fail test as per IEC 61000-4-11 & IEC 61000-4-34	
Technical parameters of single phase AC and DC voltage dip, short interruption and variation as per IEC/EN61000-4-11, GB/T17626.11 and IEC/EN61000-4-34, GB/T17626.34	
EUT Max voltage	250V AC
EUT max current	16A continuous current; 500A impulse current;
Max. input mains	Single phase 220V $\pm 5\%$, 50/60Hz $\pm 5\%$
Voltage dip level	0-100%
Voltage interruption level	0%
Voltage variation level	0-100%
Decrease time for voltage variation	500ms-60000ms (50%-100%) or 1-5us (100 ohm load) 1000ms-60000ms (0%-100%) or 1-5us (100 ohm load)
Increase time for voltage variation	500ms-60000ms (50%-100%) 1000ms-60000ms (0%-100%)

PFMF test	
Standards	IEC/EN 61000-4-8、GB/T 17626.8
Magnetic field intensity	TCXS111 single-turn 1m*1m square magnetic coil: 1-100A/m continuous, 100-400A/m (1-10s short time) TCXS113 three-turn 1m*1m square magnetic coil: 1-300A/m continuous, 300-1200A/m (1~10s short time)
Waveform	50Hz/60Hz sine wave
THID	<5%
Output current	1A-500A
Waveform interval	1-9999s
Test duration	1-28800s
Trigger mode	Auto, manual, extern
Coil size	1000*1000 mm or others
Coil shape	Rectangle or as the special requirements
Number of turns	single-turn or three-turn
Magnetic intensity	Can be programmable

Accessories	
1. VMT, VVT, MFT	6. 25 pin parallel line
2. power cable	7. factory report
3. EUT supply cable, 4mm ² banana plug	8. user manual
4. Ground wire, 5 m	
5. power cord of EUT	



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