



Power Failure and Power Frequency Magnetic Field Module

VMT 2216SV (120%)

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

Features

- > Support voltage and current measurement and acquisition
- > Support overvoltage, overcurrent, voltage limiting and current limiting protection
- > Equipped with CN25 parallel port for connection to the matching main unit

Introduction

The VMT 2216SV (120%) Power Failure and Power Frequency Magnetic Field Module complies with IEC 61000-4-8 and IEC 61000-4-11. It can be used together with the CCS and other main units to perform immunity tests for voltage dips, short interruptions, voltage variations, and power frequency magnetic fields.

This product series adopts controllable semiconductor switches with high inrush current withstand capability and is equipped with electronic short-circuit protection.

Application Areas



Technical Parameters

Power Frequency Magnetic Test According to IEC 61000 -4-8, GB/T 17626.8	
Magnetic Field Strength	Single-turn 1 m square magnetic field coil (TCXS 111): 1 A/m ~ 100 A/m (continuous) 100 A/m ~ 400 A/m (short-term: 1 s ~ 10 s) Three-turn 1 m square magnetic field coil (TCXS 113): 1 A/m ~ 400 A/m (continuous) 400 A/m ~ 1,200 A/m (short-term: 1 s ~ 10 s)
Current Waveform	50 Hz/60 Hz, sine wave
Current Distortion Factor	< 5%
Output Current	1 A ~ 500 A
Repetition Time	1 s ~ 9,999 s
Test Duration	1 s ~ 28,800 s
Trigger Mode	Manual, automatic, external signal trigger
Coil Dimension	1 m*1 m or other size
Coil Shape	Rectangular or other type
Coil Turns	Single-turn or three-turn
Output Magnetic Field Strength	Support test sequence function

Power Failure Test According to IEC 61000 - 4 -11, GB/T 17626.11	
Withstand Inrush Current	500 A
Max. Input Voltage	Single-phase, 220 V $\pm$ 5%, 50/60 Hz
Interruption Level	0%
Dip Level	0% ~ 120%
Dip & Interruption Duration	0.3 ~ 9,999 circles or 10 ms ~ 99,999 ms
Dip & Interruption Interval	50 ms ~ 50,000 ms
Dip & Interruption Test Counter	1 ~ 9,999
Dip & Interruption Rise & Fall Time	1 μ s ~ 5 μ s
Voltage Variation Level	0 ~ 100%

Technical Parameters

Power Failure Test According to IEC 61000 - 4 -11, GB/T 17626.11	
Voltage Decrease Time	500 ms ~ 9,999 ms (50% ~ 100%) or abrupt change (same as dip, interruption rise, fall time) 1,500 ms ~ 9,999 ms (0% ~ 100%) or abrupt change (same as dip, interruption rise, fall time)
Voltage Increase Time	500 ms ~ 9,999 ms (50% ~ 100%) 1,500 ms ~ 9,999 ms (0% ~ 100%)
Voltage variation duration after reduction	10 ms ~ 99,999 ms
Synchronization	0° ~ 360°, 1° step or random mode
Trigger Mode	Manual, automatic, external trigger

General Parameters

Working Power	AC 100 V ~ 240 V, 50/60 Hz
Fuse	6 A
Max. Power Consumption	50 VA
External Control Method	DB-25 parallel cable
Working Status Indications	Front panel LED indicators
Dimension	6U rack, 450 mm (W)*280 mm (H)*620 mm (D)
Weight	Approx. 71 kg
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cable, User Manual, Grounding Wire, Communication Cable

Optional Accessories

1	Combined Immunity Tester	Model: CCS Series Max. continuous magnetic field strength: 400 A/m Max. short-term magnetic field strength: 1,200 A/m EUT voltage: Single-phase: AC 220 V; Current: 16 A Dimension: 6U rack	
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