



Power Failure and Magnetic Field Module

VMT 2216SV

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

Features

- > Supports voltage and current measurement and data acquisition
- > Supports features voltage limiting, current limiting, overvoltage and overcurrent protection.
- > Equipped with CN25 parallel port for connection to the matched main unit

Introduction

The power failure and magnetic field module VMT 2216SV complies with IEC 61000-4-8, IEC 61000-4-11, GB/T 17626.8 and GB/T 17626.11.

The VMT 2216SV can work with main units such as CCS to form a test system for immunity to voltage dips, short interruptions, voltage variations and power frequency magnetic fields, enabling fully automatic testing.

Equipped with controllable semiconductor switches, this product series can withstand transient inrush current and is provided with electronic short-circuit protection.

Application Areas



Technical Parameters

Technical Parameters for Power Frequency Magnetic Field as per IEC 61000 -4-8, GB/T 17626.8	
Magnetic Field Strength	With 1-turn Coil (model: TCXS111) 1 m*1 m square magnetic field coil: 1 A/m ~ 100 A/m cont., 100 A/m ~ 400 A/m (1~10 s short term) With 3-turn Coil (model: TCXS113) 1 m*1 m square magnetic field coil: 1 A/m ~ 400 A/m cont., 400 A/m ~ 1,200 A/m (1~10 s short term)
Current Waveform	50 Hz/60 Hz Sinusoidal
Total Current Harmonic Distortion (THDc)	< 5%
Generator Output Current	1 A ~ 500 A
Repetition Rate	1 s ~ 9,999 s
Test Duration	1 s ~ 28,800 s
Magnetic Field Coil Dimension	1 m * 1 m (TCXS111/TCXS113)
Magnetic Field Coil	Rectangular shape
Trigger Mode	Auto, manual, external trigger
Output Magnetic Field Strength	Support test sequence function

Technical Parameters for Power Fail as per IEC 61000 - 4 -11, GB/T 17626.11	
Withstand Inrush Current	500 A
Max. Input Power Supply	220 V±5%, 50/60 Hz
Interruption Level	0%
Dip Level	0% ~ 100%
Rise and Fall Time for Dips and Interruption	1 μs ~ 5 μs
Duration Time for Dips and Interruption	0.3 ~ 9,999 cycle or 10 ms ~ 99,999 ms
Interval Time for Dips and Interruption	50 ms ~ 50,000 ms
Number of Dip and Interruption Test	1 ~ 9,999
Voltage Variation Level	0 ~ 100%

Technical Parameters

Technical Parameters for Power Fail as per IEC 61000 - 4 -11, GB/T 17626.11	
Voltage Reduction Time	500 ms ~ 9,999 ms (50% ~ 100%) or abrupt mode 1,500 ms ~ 9,999 ms (0% ~ 100%) or abrupt mode
Voltage Rise Time	500 ms ~ 9,999 ms (50% ~ 100%) 1,500 ms ~ 9,999 ms (0% ~ 100%)
Duration After Voltage Reduction	10 ms ~ 99,999 ms
Phase Sync	0° ~ 360°, adjustable in 1° steps or random mode

General Parameters

Operating voltage range	AC 100 V ~ 240 V ($\pm 10\%$), 50/60 Hz
Fuse	6 A
Max. Power Consumption	50 W
External Control	25-pin parallel cable
Operating Status Indication	Front panel LED indicators
Dimension	6U rack, 450 (W)*280 (H)*620 (D)mm
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	Compact Combination Simulator	Model: CCS Series Max. continuous magnetic field strength: 400 A/m Max. transient magnetic field strength: 1,200 A/m EUT voltage: Single-phase AC 220 V; Current: 16 A Dimension: 6U	
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