

Power Failure Simulator

PFS 69200T1F



- IEC 61000-4-11
- IEC 61000-4-34
- GB/T 17626.11
- GB/T 17626.34

Features

- > 5.7-inch color touchscreen for front panel operation
- > Support current and voltage measurement acquisition function
- > Built-in multi-functional test modules
- > Support voltage limiting, current limiting, overvoltage and over current function
- > Ethernet RJ45 interface for PC remote control and test report printing

Introduction

The PFS 69200T1F Power Failure Simulator is designed in accordance with the requirements of IEC 61000-4-11/34 to simulate voltage dips and short interruptions at the input port. These voltage variations are typically caused by faults in power grids and substation equipment, or sudden large changes in load status. Testing such phenomena is intended to verify whether electrical and electronic equipment can avoid unsafe operating conditions when subjected to abrupt voltage changes.

The PFS 69200T1F is equipped with controllable semiconductor switches that can withstand instantaneous inrush currents exceeding 1,000 A and provides electronic short-circuit protection.

Application Areas



Technical Parameters

EUT Current/Voltage Measurement	LCD display
EUT Max. Continuous Current	202 A
EUT Max. Input Voltage	690 V AC, 50/60 Hz
Inrush Current Withstand Capability	> 1,000 A
Protection	Built-in overcurrent, short-circuit, overvoltage, overtemperature, surge, EFT/burst and ESD protection. Optional external protection accessories for Line in/Line out ports (e.g. warning lights, emergency stop buttons)
Interruption Level	0%
Voltage Dip Level	0%, 40%, 70%, 80%
Voltage Dip and Interruption Duration	0.3 ~ 9,999 cycles or 10 ms ~ 99,999 ms
Voltage Dip and Interruption Interval	50 ms ~ 50,000 ms
Voltage Dip and Interruption Counter	1 ~ 9,999
Voltage Dip and Interruption Rise/Fall Time	For generators with a rated current of ≤ 75 A: 1 μ s ~ 5 μ s (Resistor verification as specified in the standard) For generators with a rated current > 75 A: 1 μ s ~ 50 μ s (Resistor verification as specified in the standard)
Synchronization	0° ~ 360°, 1° step setting or random mode
Trigger Mode	Manual, automatic, external trigger input

General Parameters

Display Screen	5.7-inch TFT touchscreen
Working Power	AC 220 V $\pm$ 10%, 50/60 Hz
Fuse	6 A
Max. Power Consumption	300 W
Storage Space	Infinite (PC)
Communication Mode	Ethernet LAN, RJ45
Auxiliary Interface	D-sub 25p
External Trigger Input	BNC, 5 V TTL, no contact, trigger to close
CRO Trigger Input	BNC, 5 V TTL
Operation Trigger Input	BNC, 5 V TTL
External Synchronization Input	45 Hz ~ 65 Hz 20 ~ 500 V between the same-polarity and opposite-polarity terminals 0 ~ 500 V between the terminals and chassis
Warning Lamp Output	0 ~ 220 V AC, 10 A / 0 ~ 48 V, DC 3 A Power supply depends on the type of external signal lamp
Safety Circuit	Stop work when safety circuit is open
Failure Detection	LCD display in front panel and stop work when failure occurs
Working Status Indication	LED indication and LCD display on the front panel
Grounding Method	Flat grounding wire

General Parameters

Dimension	35 U rack, 600 (L) * 1,850 (W) * 800 (H) mm
Weight	Approx. 450 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75% , RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cable, Fuse, Grounding Wire, RF Cable, Flat Grounding Wire, User Manual

Optional Accessories

1	Immunity Test Software	Model: CoreLab > Support Windows 7/8/10 /11 > Supports Ethernet and serial communication modes > Supports parameter sequence, test sequences, easy for operation > Supports customer information configuration and automatic test report printing.	
2	Model: R100Ω/1134	Model: R100Ω/1134 Impedance: 100 Ω Accuracy: ± 10% Power: 2,000 W Generator rated current: ≤50 A Model: R50Ω/1134 Impedance: 50 Ω Accuracy: ± 10% Power: 3,000 W Generator rated current: 50 A<I≤100 A Model: R25Ω/1134 Impedance: 25 Ω Accuracy: ± 10% Power: 6,000 W Generator rated current: >100 A	

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