

PFS series single/ three-phase power fail simulator



As per

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

Description

PFS series single/ three-phase power fail simulator simulates voltage dip, interruption and variation which are caused by power grid and transformer devices due to malfunction or sudden large change of load. It is required to test this kind of phenomena to check whether electronic and electrical device can sustain safety operating condition. PFS series single/ three-phase power fail simulator is equipped with controllable semi-conductor switches with protection function as per IEC 61000-4-11/34, GB/T17626.11/34.

Features

- > 5.7 inch color touch screen
- > Full compliant test as per IEC 61000-4-11
- > Built-in multifunctional test module
- > Data acquisition of voltage and current
- > Programmable test procedures
- > Ethernet RJ45, PC remote control, test report documentation and print

Industries

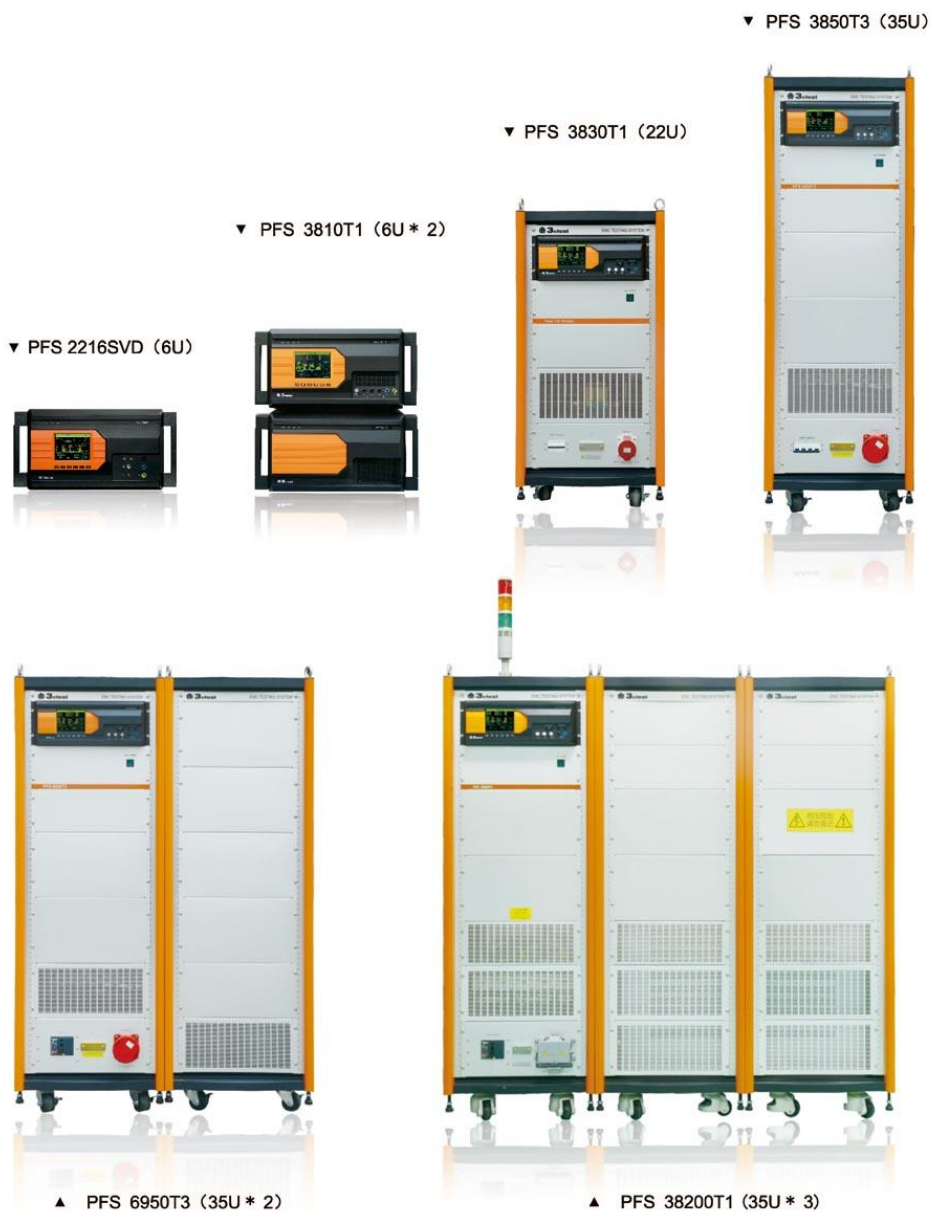
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|-----------------|----------------------|
| > Communication | > Technology |
| > Telecom | > Military |
| > Medical | > Avionics |
| > Broadcast | > New energy |
| > Railway | > Electrical Vehicle |

General data	
Display	5.7 inch TFT touch screen
Power supply	110V or 220V , ±10% , 50/60Hz (default AC 220V, 50Hz)
Fuse	6A
Max. Power	300W
Memory space	Infinite (PC)
Communication	Ethernet LAN、RJ45
Auxiliary interface	D-sub 25p
External trigger	BNC,5V TTL
CRO output	BNC,5V TTL
Input	BNC,5V TTL
Synchronization	45-65Hz, 20-500V between dotted terminal & undotted terminal 0-500V among dotted terminal, undotted terminal and case
Warning LED	0-220VAC 10A/0-48VDC 3A Depending on external signal lamp
Safety circuit	Test only can be started when it is closed
Failure test	Display on LCD and interrupt the work at failure case
Working indicator	LED, LCD front panel display
Grounding	Flat ground line
EUT power injection	5-core industrial plug
Output mode	Standard 1m coaxial cable
Size	19 inch 6U or 22U/35U cabinet
Weight	Approx. 35Kg-150Kg
Temperature	15-35°C
Humidity	45%-75%
Air pressure	86kPa-106kPa

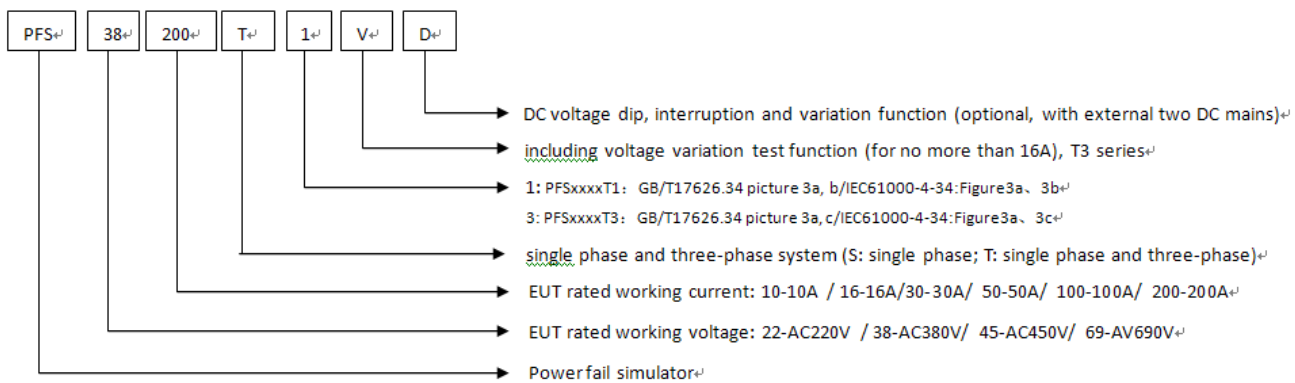
Load capacity	
Peak impulse capacity	
Rated current	Withstand impulse current capacity
Current no more than 50A	500A
50.1A~100A current	1000A
Current more than 100A	More than 1000A
Simulator with rated current no more than 16A meets the load capacity specified in IEC 61000-4-11	
Rated current	Load current capacity
PFS 3810T1 PFS 3810T3V	12A AC/DC continuous current; 15A continuous 5s; 25A continuous 3s;
PFS 3816T1 PFS 3816T3V	18A AC/DC continuous current ; 23A continuous 5s; 40A continuous 3s;
Standard accessories	
PFS test system, power cable, EUT supply cable, internet cable, factory test report, user manual	

Power fail test as per IEC 61000 - 4 – 11 & IEC 61000-4-34 for single/three phase AC including voltage dips, short interruption and variation

Technical parameters	
EUT max. Continuous current	12A (PFSxx10xxx series) 18A (PFSxx16xxx series) 33A (PFSxx30xxx series) 55A (PFSxx50xxx series) 110A (PFSxx100xxx series) 220A (PFSxx200xxx series)
Withstand impulse current	Product's current no more than 50A: 500A, more than 50A: 1000A
Protection	Internal over current, short circuit, over voltage, over heat, surge, burst, ESD protection Optional external accessories for Line in, Line out port
EUT max. Input voltage	Single phase 250VAC \pm 5%, 50/60Hz \pm 5%(300VDC optional) Three-phase : PFS38xxxx series: 420VAC, 50/60Hz \pm 5%(300VDC optional) PFS45xxxx series: 480VAC, 50/60Hz \pm 5%(300VDC optional) PFS69xxxx series: 720VAC, 50/60Hz \pm 5%(300VDC optional)
EUT current and voltage measurement	LCD display
Interruption level	0%
Voltage interruption mode	Optional one phase, two-phase or three-phase
Dip level	0%-100%
Voltage dip mode	Line to neutral Line to line PFSxxxxT1: GB/T17626.34 picture 3a, b/IEC61000-4-34:Figure3a、 3b PFSxxxxT3: GB/T17626.34picture 3a, c/IEC61000-4-34:Figure3a、 3c
Repetition rate	0.3-9999 cycle or 5ms-9999ms
Duration	5ms-9999ms
Test time	1s-9999s
Rise and fall time	Product's current no more than 75A: 1-5us(standard resistance calibration) More than 75A: 1-50us(standard resistance calibration)
Voltage variation level (for no more than 16A)	0-100%
Time for decreasing voltage (for no more than 16A)	500ms-9999ms (50%-100%) or 1-5us (100 ohm load) 1000ms-9999ms (0%-100%) or 1-5us (100 ohm load)
Time for increasing voltage (for no more than 16A)	500ms-9999ms (50%-100%) 1000ms-9999ms (0%-100%)
Time for reduced voltage (for no more than 16A)	10ms-99999ms
Synchronization	0°-360°, 1°step or random
Trigger mode	Automatic, manual, or external



Naming rule:





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