



AC/DC Drop-Out Switch

PFS 3875TDC

- IEC 61000-4-11:2020
- IEC 61000-4-29:2000
- IEC 61000-4-34:2009
- GB/T 17626.11:2023
- GB/T 17626.29:2006
- GB/T 17626.34:2012

Features

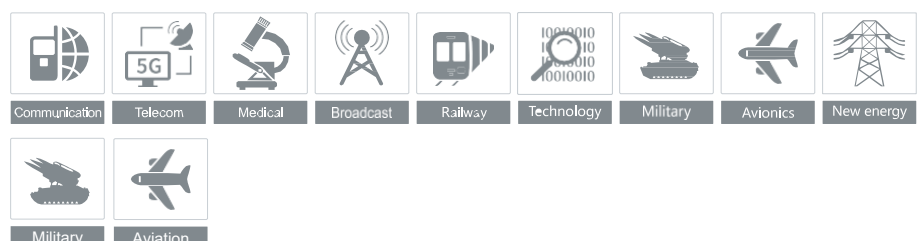
- > Test the orchestration function
- > Current measurement and acquisition
- > 5.7-inch color touch screen front panel operation
- > Imported high-power IGBT semiconductor switch, safe and stable
- > Can perform voltage interruption and temporary drop tests on three phases simultaneously
- > Ethernet RJ45 interface, used for PC remote control and printing test reports

Introduction

The PFS 3875TDC AC/DC drop switch is designed according to the testing requirements of IEC 61000-4-11, IEC 61000-4-29, and IEC 61000-4-34, and can simulate voltage dips and short-term interruptions caused by faults in the power grid, substation equipment, or sudden large changes in load.

This product is equipped with a controllable semiconductor switch that can withstand instantaneous surge currents and has electronic short-circuit protection function. It can be used to test whether electrical and electronic equipment can avoid unsafe operating conditions when encountering the above phenomena.

Application Areas



Technical Parameters	EUT Maximum Continuous Current	77 A
	Withstand Impact Current	1000 A
	Protect	Built in overcurrent, short circuit, overvoltage, overheating, surge, group pulse, electrostatic protection Line in and Line out ports can be optionally equipped with other external protective accessories
	EUT Maximum Input Voltage	AC: 380 V \pm 10%, 50/60 Hz \pm 5% DC: 1000 V
	EUT Current Measurement	LCD display
	Interrupt Level	0%
	Voltage Interruption Method	Choose one phase, two phases, or three phases for voltage interruption
	Voltage Sag Method	Temporary voltage drop between phase and neutral lines Temporary voltage drop between phase lines GB/T17626.34 Figure 3a), 3c)/IEC61000-4-34: Figure 3a), 3c) Note: The voltage sag and phase shift are determined by the external linked power supply
	Duration of Temporary Descent and Interruption	0.3 ~ 9999 cycles or 1 ms ~ 9999 ms
	Temporary Reduction and Interruption Interval Time	50 ms ~ 50000 ms
	Temporary Reduction and Interruption of Test Frequency	1 ~ 9999 times
	Temporary Descent, Interruption of Ascent, Descent Time	AC: Generator rated current of 75A and below products: 1~5 μ s (standard specified resistance verification) Generator rated current above 75A products: 1~50 μ s (standard specified resistance verification) DC: When the generator load impedance is 100 Ω : 1~50 μ s
	Synchronous	0 ° ~ 360 °, 1 ° step setting or random mode
	Trigger Mode	Manual, automatic, external trigger input
	Input Output Port	Coaxial terminal, three-phase four wire (L1, L2, L3, N)


General
Parameters

Display Screen	5.7-inch TFT touch screen
Power Supply	220 V \pm 10%, 50/60 Hz
Fuse	6 A
Max. Power Consumption	300 W
Memory Space	Infinite (PC)
Communication Mode	Ethernet LAN, RJ45
Auxiliary Interface	COMM serial interface
External Trigger Input	BNC, 5 V TTL
CRO Triggers Output	BNC, 5 V TTL
Operation Control Input	BNC, 5 V TTL
External Synchronous Input	45 ~ 65 Hz, Between 20 ~ 500 V between the terminals with the same name and those with different names Same name end, different name end and chassis 0~500 V
Safety Circuit	Stop working when the safety circuit is open
Failure Detection	When it fails, the front panel LCD displays and interrupts the instrument's operation
Working Indicator	Front panel LED indication, LCD display
Grounding Mode	Use a flat grounding wire
EUT Power Supply Voltage Injection	PF1 and PF2 both require external power supply
Detecting Output Mode	Standard 1-meter coaxial line
Dimension	19 inches/6U 450 mm(W)*280 mm(H)* 620 mm(D)
Weight	Approx. 46 kg
Ambient Temperature	15 °C ~ 35 °C
Relative Humidity	45% ~ 75%, RH (no condensation)
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Instruction manual, Test cable, Coaxial cable, Power cord, Fuse, Grounding wire, Calibration report

Optional Accessories

1	Immunity testing software	<p>Model: CoreLab</p> <p>Compatible with Windows 7/8/10/11 operating systems</p> <p>Supports Ethernet interface and serial communication mode</p> <p>Support parameter scheduling testing, testing sequences, one click testing, easy operation</p> <p>Can set customer information, automatically generate test reports, and support export of test reports, making it convenient for users to record real-time data</p>	
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