



AC/DC Drop-out Switch

PPS 3875TDC

- IEC 61000-4-11
- IEC 61000-4-29
- IEC 61000-4-34
- GB/T 17626.11
- GB/T 17626.29
- GB/T 17626.34

Features

- > 5.7-inch color touch screen front panel operation
- > Test sequence function
- > Adopts imported high-power IGBT semiconductor switches
- > Support simultaneous voltage interruption and dip tests for three phases
- > Current measurement and acquisition
- > Ethernet RJ45 interfaces for PC remote control and printing test reports

Introduction

PFS 3875TDC AC/DC Drop-out Switch is designed in compliance with IEC 61000-4-11, IEC 61000-4-29 and IEC 61000-4-34.

It simulates voltage dips and short interruptions caused by power grid faults, substation equipment failures or sudden large load changes.

This device is fitted with controllable semiconductor switches, capable of withstanding transient inrush current and equipped with electronic short-circuit protection.

Application Areas



Technical Parameters

EUT Max. Current	77 A
Withstand inrush current	1,000 A
Protection	Built-in overcurrent, short circuit, overvoltage, overheating, surge, burst and ESD protection; External protective accessories are available for Line in and Line out ports
EUT Max. Input Voltage	AC: 380 V $\pm$ 10%, 50/60 Hz $\pm$ 5% DC: 1,000 V
EUT Current Measurement	LCD Display
Interruption Level	0%
Voltage Interruption Mode	Single-phase, two-phase or three-phase voltage interruption optional
Voltage Dip Mode	Line-to-neutral voltage dip; Line-to-line voltage dip
Duration Time for Dips and Interruption	0.3 ~ 9,999 cycle or 1 ms ~ 9,999 ms
Interval Time for Dips and Interruption	50 ms ~ 50,000 ms
Number of Dip and Interruption Test	1 ~ 9,999
Rise and Fall Time for Dips and Interruption	AC: For generators with rated current $\leq$ 75 A: 1 ~ 5 μ s For generators with rated current $>$ 75 A: 1 ~ 50 μ s DC: At generator load impedance of 100 Ω : 1 ~ 50 μ s
Phase Sync	0° ~ 360°, adjustable in 1° steps or random mode
Trigger Mode	Auto, manual, external trigger
Input/Output Ports	Coaxial terminals, Three-phase 4-wire (L1, L2, L3, N)

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 220 V, $\pm$ 10%, 50/60 Hz
Fuse	6 A
Max. Power Consumption	300 W
User Storage Space	Unlimited
Communication	Ethernet LAN, RJ45
Auxiliary Interface	COMM serial port
External Trigger Input	BNC, 5 V TTL
CRO Trigger Output	BNC, 5 V TTL
Operation Control Input	BNC, 5 V TTL
External Sync Input	45 ~ 65 Hz; Homonymous and heteronymous terminals: 20 ~ 500 V Terminals and enclosure: 0 ~ 500 V
Safety Circuit	Stops operation when safety loop is open
Fault Detection	Front panel LCD alarm and unit shutdown upon fault
Operation Status Indication	Front panel LED and LCD display
Grounding Connection	Flat grounding Cable
EUT Power Voltage Injection	External power supply required for both PF1 and PF2

General Parameters

Output Mode	Standard 1m coaxial cable
Dimension	6U rack, 450 mm (W)*280 mm (H)*620 mm (D)
Weight	Approx. 46 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%, RH
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Power Cord, Test Cable, User Manual, Grounding Wire, Coaxial Cables, Fuse

Optional Accessories

1	Control Software Model: Corelab	> Support Windows 7/8/10/11; > Support Ethernet Interface; > Support sequence test, easy to operate, generate and export test report.	
---	------------------------------------	--	---

SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: +86 - 512 - 68077192

Web: www.3ctest.com



3CTEST is always striving for product innovation and quality improvement. Product appearance and technical specifications are subject to change without further notice.