



Fast Damped Oscillatory Wave Simulator

DOS 400F

- IEC 61000-4-18
- IEC 255-22-1
- GB/T 14598.13
- ANSI C37.90

Features

- > 5.7-inch color touch screen front panel operation
- > The oscillatory frequency is 3 MHz / 10 MHz / 30 MHz, the test voltage up to 4 kV
- > Built in three-phase coupling/decoupling network, maximum current up to 32 A
- > LAN Ethernet interface for remote control

Introduction

The DOS 400F fast damped oscillatory wave simulator can complete the testing of fast damped oscillatory waves required by the IEC 61000-4-18 standard.

The DOS 400F has three selectable oscillatory frequency points of 3 MHz/10 MHz/30 MHz, and the highest test voltage can reach 4 kV. Oscillatory waves are repeatable transient disturbances that occur on high or medium voltage power lines, control lines, and signal lines.

Application Areas



Technical Parameters

Test Voltage	0.5 kV ~ 4 kV $\pm$ 10%
Polarity	Positive, negative
Source Impedance	50 Ω $\pm$ 20%
Voltage Wave Rise Time	5 ns $\pm$ 30%
Frequency	3 MHz / 10 MHz / 30 MHz $\pm$ 10%
Attenuation	Pk ₅ > 50% of Pk ₁ Pk ₁₀ < 50% of Pk ₁
Repetitive Frequency	Max. 5 kHz $\pm$ 10%
Burst Duration	50 ms $\pm$ 20% @ 3 MHz 15 ms $\pm$ 20% @ 10 MHz 5 ms $\pm$ 20% @ 30 MHz
Burst Circle	300 ms $\pm$ 20%
Short-circuit Current	10 A ~ 80 A $\pm$ 20%
Current Wave Rise Time	3 MHz < 330 ns 10 MHz < 100 ns 30 MHz < 33 ns
Attenuation	Pk ₅ > 25% of Pk ₁ Pk ₁₀ < 25% of Pk ₁
Trigger Mode	Automatic, manual, external trigger
Coupling Network	AC 480 V 16 A/32 A DC 500 V 16 A/32 A

General Parameters

Working Power	AC 110/220 V, $\pm$ 10%, 50 Hz/60 Hz
Power Consumption	Max. 500 W
Fuse	6 A
Working Status Indication	LED indication and LCD display on the front panel
Dimension	19-inch/ 4U rack + 4U rack
Weight	Approx. 50 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Fast Damped Oscillatory Wave Simulator 1pc, Test Cable, Grounding Wire, Fuse, User Manual

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



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