

Impulse Current Simulator

S16C4000N



- YD-T 944
- IEC 61643-11
- GB/T 18802.11

Features

- > 5.7-inch color touch screen front panel operation
- > Max. test current 40 kA
- > Built-in three-phase coupling/decoupling network
- > Support text sequence function and easy operation
- > LAN communication interface for remote control

Introduction

The S16C4000N is a new type of impulse current simulator developed in compliance with YD-T 944, GB/T 18802.11, IEC 61643-11. It can output an 8/20 μ s impulse current waveform with a Max. impulse current of 40 kA. By configuring the test requirements on the parameter setting page, the entire test process can be automatically executed. The system features high integration, intelligent control, easy operation, and reduced test time.

Application Areas



Technical Parameters

Test Current Range	2 kA ~ 40 kA, $\pm 10\%$,
Charging Voltage	≤ 16 kV
Current Waveform	Front time: $8 \mu\text{s} \pm 10\%$ Time to half value: $20 \mu\text{s} \pm 10\%$ Front time definition: 1.25^* (10% ~ 90%) Time to half value definition: 1.18^* (50% ~ 50%)
Output Polarity	Positive, negative, alternative
Pulse Period	14 s ~ 200 s (The minimum time depends on the test voltage)
Source Output Impedance	$\leq 0.4 \Omega$
Test Count	1 ~ 999
Trigger Mode	Manual, Auto, External Trigger
Build-in CDN	
EUT Load Capacity	Three-phase five-wire AC 400 V (line voltage) / 100 A (fully compatible with current) DC 600 V / 100 A (fully compatible with current)
EUT Power Switching Mode	Automatic switching
EUT Coupling Path	Any combination of L1, L2, L3, N, and PE paths
Coupling Method	GDT spark gap coupling
Decoupling Method	LC decoupling, decoupling inductance < 0.5 mH

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 220 V, $\pm 10\%$, 50/60 Hz
Fuse	10 A
Max. Power Consumption	1,500 W
External Control Mode	25-pin parallel cable
External Trigger Input	BNC, 5 V TTL
Operation Control Input	BNC, 5 V TTL
Grounding Method	Flat grounding wire
Communication Mode	Ethernet LAN
Dimension	35 U rack, 680mm(L)*800mm(W)*1,750mm(H)
Weight	Approx. 393 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%, RH(no condensation)

Standard Accessories

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

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