



EFT/Burst Simulator

EFT 200TC

- IEC/EN 61000-4-4
- IEC 61000-6-1
- IEC 61000-6-2
- IEC 61850-3
- IEC 61326
- EN IEC 61000-6-1
- EN IEC 61000-6-2
- EN IEC 61326
- ANSI/IEEE C62.41
- RENAULT 36-00-811--H
- GB/T 17626.4

Features

- > 5.7-inch color touch screen front panel operation
- > Supports cont. pulse tests as per RENAULT 36-00-811--H
- > Supports uninterrupted continuous pulse testing with the Max. amplitude is 2.5 kV and a Max. duration of 600 s
- > Max. EFT/B voltage is 5 kV
- > Built-in three-phase CDN, max. load capacity: AC 400 V / 32 A, DC 400 V / 32 A
- > Test sequence function
- > Built-in fault alarm function

Introduction

EFT 200TC three-phase EFT/Burst Simulator is developed for EMC testing of automotive components. It supports the continuous pulse test specification RENAULT 36-00-811--H, and is also compatible with standards IEC 61000-4-4 and GB/T 17626.4.

The equipment simulates continuous transient interference generated by automotive inductive loads and relay switching. Equipped with a built-in three-phase CDN rated at AC/DC 400 V / 32 A, it delivers uninterrupted continuous pulses with a Max. amplitude of 2.5 kV for up to 600 s, as well as burst output with a Max. test voltage of 5 kV.

Application Areas



Technical Parameters

Continuous Pulse Parameters	
Test Voltage	200 V ~ 2,500 V (0% ~ +20%)
Polarity	Positive, negative, alternative
Source Impedance	50 Ω
Front Time	5 ns $\pm$ 30%, @50 Ω load, 1,000 Ω load
Duration	50 ns $\pm$ 30%, @50 Ω load 50 ns $\pm$ 30%, @1,000 Ω load
Frequency	0.1 kHz~10 kHz
Continuous Wave Duration	Max. 600 s
Trigger Mode	Manual, Auto, External Trigger
Sync Mode	0° ~ 360°, 1° step or random mode
Direct Output Mode	Via high-voltage coaxial connector
Coupling Decoupling Network	Built-in three-phase CDN AC 400 V, 32 A / DC 400 V, 32 A (resistive load)
Burst Parameters	
Test Voltage	200 V ~ 5,000 V
Polarity	Positive, negative, alternative
Source Impedance	50 Ω
Front Time	5 ns $\pm$ 30%, @50 Ω load, 1,000 Ω load
Duration	50 ns $\pm$ 30%, @50 Ω load 50 ns (-15 ns ~ + 100 ns), @1,000 Ω load
Frequency	0.1 kHz ~ 100 kHz
Burst Duration	0.075 ms ~ 750 ms, quantity adjustable
Burst Period	1 ms ~ 9,999 ms
Test Duration	1 s ~ 9,999 s
Trigger Mode	Manual, Auto, External Trigger
Sync Mode	0° ~ 360°, 1° step or random mode
Direct Output Mode	Via high-voltage coaxial connector
Coupling Decoupling Network	Built-in three-phase CDN AC 400 V, 32 A / DC 400 V, 32 A (resistive load)

General Parameters

Display Screen	5.7-inch TFT touch screen
Working Power	AC 220 V, $\pm$ 10%, 50/60 Hz
Fuse	6 A
Max. Power Consumption	200 W
Communication Mode	Ethernet
Working Status Indication	LED indication and LCD display on front panel
Failure Detection	LCD display on front panel and stop work when failure occurs
Dimension	4U rack, 450(W)*190(H)*620(D) mm
Weight	Approx. 26 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%

Standard Accessories

Power Cord, Test Cables, Grounding Wire, Fuse, CN25 Cable, RF Cable, User Manual

Optional Accessories

1	EFT/Burst Calibration Kit	Model: EFT-CA-KIT(SHV) TFB 500(SHV): Impedance 50 Ω , Ratio 500:1 TFB 1000(SHV): Impedance 1,000 Ω , 1, Ratio000:1	
2	Capacitive Coupling Clamp	Model: CCC 100 Coupling capacitance: 100 pF ~ 1,000 pF, DC 5 kV Withstand voltage: >5 kV (1.2/50 μ s surge) Port: SHV	
3	PC Control Software	Model: Corelab >Support Windows 7/8/10/11; >Support Ethernet Interface; >Support sequence test, easy to operate, generate and export test report.	

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