

COMET

VOLTAGE STABILIZER SVC (TND) SERIES

5 KVA

SINGLE-PHASE 220 V



SVC (TND) 5 KVA

Fully Automatic Single-Phase
AC Voltage Regulator

INPUT RANGE 130–270 V

REGULATED OUTPUT 220 V

RATED CAPACITY 5 kVA

FREQUENCY 50/60 Hz

PRODUCT INTRODUCTION

The SVC (TND) series single-phase automatic high-precision AC voltage regulator consists of a contact auto-transformer, a servo motor, and an automatic control circuit. This 5 kVA model utilizes advanced servo motor control technology to provide a stable 220 V output. It is widely used in areas where the grid voltage fluctuates frequently, helping protect precision instruments, office equipment, and household appliances.

KEY FEATURES

HIGH PRECISION

Output voltage stability within $\pm 1\%$.

LCD DISPLAY

Real-time monitoring of input/output voltage, current, and load status.

SERVO MOTOR CONTROL

Stepless voltage regulation for smooth transitions.

COMPREHENSIVE PROTECTION

Built-in over-voltage, under-voltage, and over-current safeguards.

LOW LOSS

High-efficiency pillar/column type transformer minimizes energy waste.

FAST RESPONSE

Corrects fluctuations in less than 1 second.

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Rated Capacity	5 kVA
Input Voltage Range	130 V–270 V
Output Voltage	220 V $\pm$ 1%
Frequency	50/60 Hz
Display	LCD (Input/Output Voltage, Current, Load)
Efficiency	$\geq$ 80%
Operating Temperature	–10°C to +40°C
Max Altitude	$\leq$ 1000 m
Relative Humidity	$\leq$ 90%
Insulation Resistance	$\geq$ 5 M Ω
Waveform Distortion	None
Protections	Over-voltage, Under-voltage, Over-current
Response Time	<1 s (against $\pm$ 10% input fluctuation)
Correction Speed	90 V/sec
Control Type	Servo motor control (Stepless)
Transformer Type	Pillar/Column type (Low loss)
Ingress Protection	IP20
Dimensions (L $\times$ W $\times$ H)	280 $\times$ 350 $\times$ 260 mm
Net Weight	19 kg

APPLICATION

Designed for environments with frequent grid-voltage fluctuations, providing regulated and stable power for precision instruments, office equipment, and household appliances.

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