COMET

VOLTAGE STABILIZER SVC (TND) SERIES

3 KVA

SINGLE-PHASE 220 V



SVC (TND) 3 KVA

Fully Automatic Single-Phase AC Voltage Regulator

INPUT RANGE 130–270 V

REGULATED OUTPUT 220 V

RATED CAPACITY 3 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 3 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 ±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	3 kVA
Input Voltage Range	130 V–270 V
Output Voltage	220 V ±1%
Frequency	50/60 Hz
Display	LCD (Input/Output Voltage, Current, Load)
Efficiency	≥80%
Operating Temperature	−10°C to +40°C
Max Altitude	≤1000 m
Relative Humidity	≤90%
Insulation Resistance	≥5 MΩ
Waveform Distortion	None
Protections	Over-voltage, Under-voltage, Over-current
Response Time	<1 s (against ±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 × W × H)	250 × 290 × 240 mm
Net Weight	12 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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