Tescom®

INDUSTRY | TRANSPORT | MALLS & FACILITIES | HOME & OFFICE

FULL AUTOMATIC VOLTAGE REGULATOR 1:1

TVR 11

3-50kVA

Microprocessor Control

Wide Voltage Range

High Protection

SERVICE / TECH. SUPPORT | ECO FRIENDLY | 90 V/S CORRECTION SPEED | 0.8 POWER FACTOR

Tescom TVR 11 Series Servo Voltage Regulators provide safe energy for your loads in sites where your mains is irregular or where the power supply voltage is unstable, such as a generator. By keeping the voltage within certain tolerances, it offers full protection against the risk of damage caused by excessive fluctuations in voltage.

With microprocessor control, the necessary signals for the desired regulation are transmitted to the DC motor. The DC motor provides movement in the direction of adding or subtracting voltage for regulation on the variac to which it is mechanically connected. This supplied voltage is transferred to the differential auxiliary transformer (booster transformer). As a result, electronically controlled stable voltage is provided in the output voltage against voltage changes.

TVR 11 series with high correction speed, fully mechanical and electronic protection are offered in the power range of 3-50kVA with 1 phase input and 1 phase output.

GENERAL SPECIFICATIONS

- 1 phase input 1 phase output
- Wide power and voltage interval
- High reliability thanks to Microprocessor and Smart Driver
- Fast Regulation
- High efficiency
- Load transfer to Bypass via pole charge switch
- Safe and economic usage
- Overcurrent and overload protection
- Digitally displayed status, input & output measurements
- Optional 1.0 output power factor (PF) option

TECHNICAL SPECIFICATIONS

MODEL	TVR 1103	TVR 1105	TVR 1107	TVR 1110	TVR 1115	TVR 1120	TVR 1125	TVR 1130	TVR 1140	TVR 1150
Power (kVA)	3	5	7,5	10	15	20	25	30	40	50
INPUT										
In. vol. correct. interval	160 - 260 / 90 - 285 VAC (Optional)									
In. vol. operating. interval	155 - 265 VAC									
Operation frequency	47...65 Hz									
Line input protection	Overcurrent, Low and High voltage protection									
Current at input	16	24	36	48	72	96	120	144	192	240
OUTPUT										
Output voltage	220 / 230 / 240 VAC RMS ± 1%									
Overloading	10 Sec. 200% Load									
Correction speed	~ 90 Volt / Sec.									
Upturn period	~ 90 Volt / Sec. (160 VAC - 260 VAC)									
Output protection	Protects load by opening the circuit when overburden, short circuit occurs (optional)									
Current at output	11	18	27	36	54	72	90	108	144	180
GENERAL										
Working principle	Servo Motor, Microprocessor Controlled, Full Automatic									
Cooling	Smart fan system									
Measured value monitor.	TESCOM TRUE RMS Panel Voltmeter (74x74mm) output voltage and line voltage monitorization									
Total efficiency	> 96%									
Mechanic By-pass	Available									
Protection level (*)	IP 20									
ENVIRONMENTAL										
Operating temperature	-10°C / 50°C									
Storage temperature	-25°C / 60°C									
Relative humidity	< 90%, DIN (40040)									
Altitude	< 2000 m.									
Acoustic level	< 50 dB (1m^2)									
Standards	CE / ISO 9001									
DIMENSIONS										
WxDxH (cm)	56x39x32					52x65x68			50x62x85	
Weight (kg)	28	30	34	47	55	95	110	130	155	180
(*) Optional different protection class option										