

TVR 11

3-50kVA

Microprocessor Control

Wide Voltage Range

High Protection

SERVICE /
TECH. SUPPORT

ECO FRIENDLY

90
V/SCORRECTION
SPEED

1.0

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 change switch
- Safe and economic usage
- Overcurrent and overload protection
- Digitally displayed status, input & output measurements
- Optional 0.8 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	90 - 285 VAC										
Operation frequency	47...65 Hz										
Line input protection	Overcurrent, Low and High voltage protection										
Current at input	15	24	36	48	72	96	120	144	192	240	
OUTPUT											
Output voltage	220 / 230 / 240 VAC RMS \pm 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										
Current at output	12	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 // IP 54 (Optional)										
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 0.8 output power factor (PF) option											