

TVR 33

10,5-3000kVA

Microprocessor Control

Wide Voltage Range

High Protection



Tescom TVR 33 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 separate microprocessor control for each phase, 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 33 series with high correction speed, fully mechanical and electronic protection are offered in the power range of 10.5-250KVA with 3 phase input and 3 phase output.

GENERAL SPECIFICATIONS

- 3 phase input 3 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 0.8 output power factor (PF) option

TECHNICAL SPECIFICATIONS

MODEL	TVR 33010	TVR 33015	TVR 33022	TVR 33030	TVR 33045	TVR 33060	TVR 33075	TVR 33100	TVR33120	TVR 33150
Power (kVA)	10,5	15	22,5	30	45	60	75	100	120	150
GİRİŞ										
In. vol. correct. interval	275 - 460 VAC (Optional: 200-460 VAC)									
Operation frequency	47...65 Hz									
Line input protection	Overcurrent, Low and High voltage protection									
Current at input	21	30	45	61	91	121	152	202	242	303
OUTPUT										
Output voltage	380 VAC RMS \pm 1%									
Overloading	10 Sec. 200% Yük									
Correction speed	~ 90 Volt / Sec.									
Upturn period	~ 90 Volt / Sec. (275 - 460VAC)									
Output protection	Protects load by opening the circuit when overburden, short circuit occurs. (optional)									
Current at output	16	23	34	45	68	91	114	152	182	227
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	> 97 %									
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)	38x60x66		51x68x129			60x99x159			60x93x171	
Weight (kg)	110	135	160	170	200	222	280	310	400	425
Optional 0.8 output power factor (PF) option										
(*) Optional different protection class option										

TECHNICAL SPECIFICATIONS

MODEL	TVR 33200	TVR 33250	TVR 33300	TVR 33400	TVR 33500	TVR 33600	TVR 33800	TVR 331000	TVR 331250	TVR 331500	TVR 332000	TVR 332500	TVR 333000
Power (kVA)	200	250	300	400	500	600	800	1000	1250	1500	2000	2500	3000
INPUT													
In. vol. correct. interval	275 - 460 VAC												
Operation frequency	47..65 Hz												
Line input protection	Overcurrent, Low and High voltage protection												
OUTPUT													
Output voltage	380 / 400 / 415 VAC RMS \pm 1%												
Overloading	10 Sec. 200 % Load												
Correction speed	~ 90 Volt / Sec.												
Upturn period	~ 90 Volt / Sec. (275 VAC - 460 VAC)												
Output protection	Protects load by opening the circuit when overburden, short circuit occurs. (optional)												
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	> 97 %												
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	< 55 dB (1m ²)												
Standards	CE / ISO 9001												
DIMENSIONS													
WxDxH (cm)	177x66x139			211x100x176			210x144x208	210x214x185	240x214x208	240x264x188	240x264x208	please ask	
Weight (kg)	1050	1100	1200	1650	2000	2100	2900	3450	3900	4300	6000	please ask	
Optional 0.8 output power factor (PF) option													
(*) Optional different protection class option													