

tuncmatik

Industrial AVR

1-50 kVA (1 Ph) 3-3000 kVA (3 Ph)

AUTOMATIC (SERVO) VOLTAGE
REGULATOR



TUNCMATIK Automatic (Servo) voltage regulators have smart microcontrollers for heavy devices which is regulating the mains voltage for your critical loads.

Single phase

100 / 110 / 115 / 120 / 127 / 200 / 220 / 230 / 240 / 265 / 277 VAC

Three phase

208(120) / 220(127) / 230(133) / 240(138) / 380(220) / 400(230) /
415(240) / 440(254) / 460(268) / 480(277) / 500(289) VAC

GENERAL SPECIFICATIONS

- Ability to drive non-linear loads.
- Wide power and voltage range.
- Fast regulation.
- High reliability with microprocessor and smart driver.
- High efficiency.
- Ability to transfer the load to Bypass with a pole changer switch.
- Overvoltage protection.
- Input and output measurement, digital display that shows status.
- 90 V/sn voltage regulation speed.
- Independent phase operation.
- Cooper or Aluminium winding.
- Manuel Bypass and low MTBF.
- Overload, Short circuit protection.
- Smart fan cooling system.
- Small foot print and compact design.
- Harsh environment operation.
- Dust, humid and vibration resistance.
- It creates a reliable and economical solution in usage areas.
- 20 years of design life.

OPTIONS

- Low voltage protection
- Phase and surge protection
- Phase protection unit
- Surge protection unit
- High/Low voltage protection (Contactor)
- Up to IP54
- Thermostat cooling for units above 200 kVA
- Emi Filter

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1-50 kVA (1 Ph)

AUTOMATIC (SERVO) VOLTAGE REGULATOR



MODEL	1	2	3,5	5	7,5	10	15	20	25	30	40	50
Phase	1 Phase											
INPUT												
Voltage	160-250 VAC											
Voltage Range	90-285 VAC (OPT)											
Frequency	47-65 Hz											
OUTPUT												
Output Voltage	220/230/240 VAC RMS ±1%											
Overload	10sec 200% load											
Regulation Speed	~ 90 V/sec											
Efficiency	>96%											
Return Period	~ 90 V/sec (160 VAC - 260 VAC)											
SYSTEM FEATURES												
Measurements	Output frequency, Output voltage, Output current, Output power											
Alarms	Low/High voltage, Overload, Overcurrent, Short Circuit											
Front Panel	LED/LCD Panel											
Operation Topology	Servo Motor microprocessor controlled, Full automatic											
Mechanical Bypass	Change over switch (Mains - Regulator)											
Cooling System	Smart fan system											
Cabinet Color	RAL9005 (OPT: Others)											
Protection Level	IP20											
DIMENSIONS & WEIGHT												
W x D x H (mm)	450 x 350 x 270				550 x 350 x 270		600 x 400 x 270		500 x 500 x 850		500 x 600 x 850	
Weight (kg)	15	18	29	41	48	55	75	136	163	180	200	
ENVIRONMENTAL												
Operation Temperature	-10°C - 50°C											
Storage Temperature	-25°C - 60°C											
Relative Humidity	<90% (non-condensing)											
Altitude	<2000m											
Noise Level	<50 dB											

*Product properties may change without a notice

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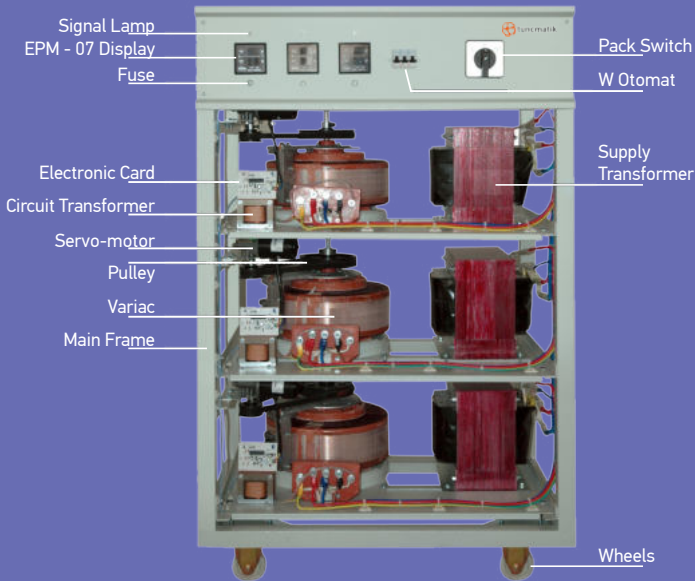
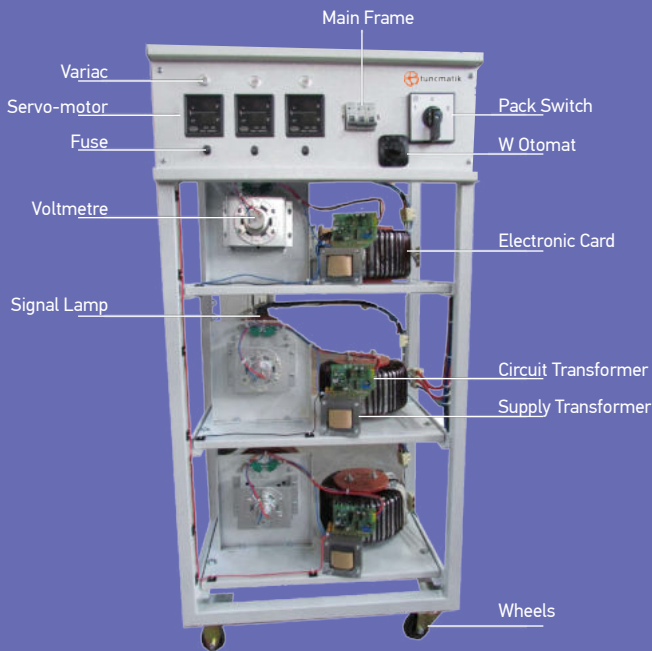
Industrial AVR

3- 150 kVA (3 Ph)

AUTOMATIC (SERVO) VOLTAGE REGULATOR

MODEL	3	6	10,5	15	22,5	30	45	60	75	100	120	150
Phase	3 Phase											
INPUT												
Nominal Voltage	275(153)-450(260) VAC											
Voltage Range	208(120)-500(289) VAC (OPT)											
Frequency	47-65 Hz											
OUTPUT												
Output Voltage	380/400/415 VAC (RMS ±1%)											
Frequency	50 Hz											
Overload	10sec 200% load											
Regulation Speed	~ 80 V/sec											
Efficiency	>95%											
Return Period	~ 90 V/sec (275 VAC - 450 VAC)											
SYSTEM FEATURES												
Line Input Protection	Output frequency, Output voltage, Output current, Output power											
Output Protection	Low/High voltage, Overload, Overcurrent, Short Circuit											
Front Panel	LED/LCD Panel											
Operation Topology	Servo Motor microprocessor controlled, Full automatic											
Mechanical Bypass	Change over switch (Mains - Regulator)											
Cooling System	Smart fan system											
Cabinet Color	RAL9005 (OPT: Others)											
Protection Level	IP20											
DIMENSIONS & WEIGHT												
W x D x H (mm)	540 x 440 x 1100					600 x 440 x 1190		850 x 640 x 1400			900 x 690 x 1630	
Weight (kg)	45	50	100	135	154	183	237	300	410	510	545	623
ENVIRONMENTAL												
Operation Temperature	-10°C - 60°C											
Storage Temperature	-25°C - 50°C											
Relative Humidity	<90% (non-condensing)											
Altitude	<2000m											
Noise Level	<45 dB											

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Industrial AVR

200-3000 kVA (3 Phase)

AUTOMATIC (SERVO) VOLTAGE REGULATOR

MODEL	200	250	300	400	500	600	800	1000	1250	1500	2000	2500	3000
Phase	3 Phase												
INPUT													
Nominal Voltage	278(159)-450(260) VAC												
Voltage Range	208(120)-500(289) VAC (OPT)												
Frequency	47-65 Hz												
OUTPUT													
Output Voltage	380/400/415 VAC (RMS ±1%)												
Frequency	50 Hz												
Overload	10sec 200% load												
Regulation Speed	~ 80 V/sec												
Efficiency	>95%												
Return Period	~ 90 V/sec (160 VAC - 260 VAC)												
SYSTEM FEATURES													
Line Input Protection	Output frequency, Output voltage, Output current, Output power												
Output Protection	Low/High voltage, Overload, Overcurrent, Short Circuit												
Front Panel	LED/LCD Panel												
Operation Topology	Servo Motor microprocessor controlled, Full automatic												
Mechanical Bypass	Change over switch (Mains - Regulator)												
Cooling System	Smart fan system												
Cabinet Color	RAL9005 (OPT: Others)												
Protection Level	IP20												
DIMENSIONS & WEIGHT													
W x D x H (mm)	1220 x 1800 x 1200			1400 x 1800 x 1220	1750 x 1800 x 1220		1850 x 2100 x 2000	1850 x 2100 x 2000	1850 x 2100 x 2600	1950 x 2400 x 2600	Special		
Weight (kg)	1050	1100	1200	1650	2000	2100	2900	3450	3900	4300			
ENVIRONMENTAL													
Operation Temperature	-10°C - 50°C												
Storage Temperature	-25°C - 60°C												
Relative Humidity	<90% (non-condensing)												
Altitude	<2000m												
Noise Level	<55 dB												

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