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Specifications sheet: Fast Correction PWM Automatic Voltage Regulator (AVR), $\pm 12\%$ series

CATEGORY	FEATURE	THREE PHASE MODELS	
		VRp-100000-9339-120	VRp-200000-9339-120
ELECTRICAL	Capacity in KVA (KW)	100 KVA	200 KVA
	Regulator engine	High frequency 20 Khz IGBT driven voltage regulation convertor	
INPUT	*Nominal voltage	410 volts ac, three phase	
	*Normal operating voltage (typical output regulation within +/- 1% of nominal)	360- 460 volts ac ($\pm 12\%$) for full regulation	
	Relaxed operating voltage (relaxed output regulation within functional range of 200-250V P-N)	305 - 485 volts ac (+18% -25%) within maximum rated input current capacity	
	Maximum rated input current	160A	321A
	Nominal frequency	47 - 63 Hz	
	Input circuit breaker rating	160 A X 3 phase MCCB	400 A X 3 phase MCCB
	Input wire size	2x16 mm ² (AWG 2)	95 mm ² (AWG 000)
	AC connection	Terminal block (L1in , L2in, L3in, neutral and ground wires) provided	
OUTPUT	*Nominal voltage	410 volts ac, three phase	
	Power efficiency	typically over 97 % (with 20 - 100% load conditions)	
	Voltage regulation (typical, excluding meter error)	+/- 3%	
	Maximum rated output current	140 A	280 A
	System status indicator	Green LED (ON) indicates Normal (regulating mode) operation	
PHYSICAL	Ac connection	Terminal block (L1op , L2op, L3op, neutral and ground wires) provided	
	Dimensions (IN MM)	660D X 660W X 720H	888D x 888W x 838H
	Weight (approx.)	170 Kgs	335 Kgs
	Annunciation	LED display for Regulation mode, Bypass mode & Fault conditions	
ENVIRONMENTAL	Mounting	4 High Quality Castor wheels, 2 with brakes	
	Ambient temperature	0° to + 45° centigrade (32° to +113° farhenite). 10 to 90% RH non-condensing	
PROTECTIVE FEATURES	Cooling method	Fan Cooled	
	Standards & Safety	Designed to meet UL 60950-1 standards. Protection class IP 20.	
	Overload & Short Circuit Protection	Through suitably rated input circuit breaker	
	Soft Switch-On	This feature ensure that the output voltage is never higher than the input voltage upon switch-on, before it commences full stabilization.	
	Automatic bypass	Automatic bypass will be activated when there is a fault condition	
	Surge Test Conditions	Per Class 2 Surge (combination wave)	
WARRANTY	Surge let-through voltages	1.2 X 50µs, 6kV, 8 X 20 µs, 3 kA waveform. L-N < 300V	
WARRANTY	Warranty	Two year limited warranty, covering repair/replacement of defective parts	
NOTES	1. All * marked voltage regulation ranges are based on 410 V nominal output voltage. They would proportionately change in case nominal output voltage is required to be preset at any other value between 380-415V. 2. Please ask if any non-standard range or customised feature is required. 3. Since our designs are constantly evolving, the above specifications are liable to change without prior notice.		