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Specifications sheet: Fast Correction PWM Automatic Voltage Regulator (AVR), ± 20% series

CATEGORY	FEATURE	SINGLE PHASE MODELS					
		VRp-1000-9230-200	VRp-3000-9230-200	VRp-5000-9230-200	VRp-7500-9230-200	VRp-10000-9230-200	VRp-15000-9230-200
ELECTRICAL	Capacity in KVA (KW)	1 KVA	3 KVA	5 KVA	7.5 KVA	10 KVA	15 KVA
	Regulator engine	High frequency 20 Khz IGBT driven voltage regulation convertor					
INPUT	*Nominal voltage	230 volts ac, single phase					
	*Normal operating voltage (typical output regulation within +/- 1% of nominal)	184 - 276 volts ac for full regulation					
	Relaxed operating voltage (relaxed output regulation within functional range of 200-250V P-N)	160 - 300 volts ac within maximum rated input current capacity					
	Maximum rated input current	5A	16A	27A	40 A	54A	82A
	Nominal frequency	47 - 63 Hz					
	Input circuit breaker rating	10 A X 2 phase (ganged MCB)	20 A X 2 phase (ganged MCB)	32 A X 2 phase (ganged MCB)	40 A X 2 phase (ganged MCB)	63 A X 2 phase (ganged MCB)	100 A X 2 phase MCCB
	Input wire size	2.5 mm ² (AWG 14)	4 mm ² (AWG 12)	6 mm ² (AWG 10)	6 mm ² (AWG 10)	10 mm ² (AWG 8)	16 mm ² (AWG 6)
	Ac connection	Terminal block (L1in, neutral and ground wires) provided					
OUTPUT	*Nominal voltage	230 volts ac, single phase					
	Power efficiency	typically over 96 % (with 20 - 100% load conditions)					
	Voltage regulation (typical, excluding meter error)	+/- 1%					
	Maximum rated output current	4A	13A	22A	33A	43A	65A
	System status indicator	Green LED (ON) indicates Normal (regulating mode) operation					
PHYSICAL	Ac connection	Terminal block (L1op , neutral and ground wires) provided					
	Dimensions (IN MM)	435D x 300W x 175H			540D x 405W x 280H		
	Weight (approx.)	16 kgs	20 kgs	23 kgs	40 Kgs	50 Kgs	60 Kgs
	Annunciation	LED display for Regulation mode, Bypass mode & Fault conditions					
ENVIRONMENTAL	Mounting	Pad Mounted					
	Ambient temperature	0 ^o to + 45 ^o centigrade (32 ^o to +113 ^o 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 output voltage is never higher than 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	Two year limited warranty, covering repair/replacement of defective parts					
NOTES	1. All * marked voltage regulation ranges are based on 230 V nominal output voltage. They would proportionately change in case nominal output voltage is required to be preset at any other value between 215-240 V. 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.						