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Specifications sheet: VRp Precision PWM Line Conditioners for Machinery, $\pm 20\%$ series

| CATEGORY | FEATURE | SINGLE PHASE MODELS | | | | | |
|---------------------|---|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| | | VRp- 1000-9230-200M | VRp- 2000-9230-200M | VRp- 3000-9230-200M | VRp- 5000-9230-200M | VRp- 7500-9230-200M | VRp- 10000-9230-200M |
| ELECTRICAL | Capacity in KVA (KW) | 1 KVA | 2 KVA | 3 KVA | 5 KVA | 7.5 KVA | 10 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) | 160 - 300 volts ac within maximum rated input current capacity | | | | | |
| | Maximum rated input current | 5A | 11A | 16A | 27A | 40 A | 54A |
| | Nominal frequency | 47 - 53 Hz | | | | | |
| | Input circuit breaker rating | 10 A X 2 phase (ganged MCB) | 16 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) |
| | Input wire size | 2.5 mm ² (AWG 14) | 4 mm ² (AWG 12) | 4 mm ² (AWG 12) | 6 mm ² (AWG 10) | 10 mm ² (AWG 8) | 10 mm ² (AWG 8) |
| | Ac connection | Terminal block (L1in , neutral and ground wires) provided | | | | | |
| OUTPUT | *Nominal voltage | 230 volts ac, three phase | | | | | |
| | Power efficiency | typically over 96 % (with 20 - 100% load conditions) | | | | | |
| | Voltage regulation (typical, excluding meter error) | +/- 1% | | | | | |
| | Maximum rated output current | 4A | 9A | 13A | 22A | 32A | 43A |
| | System status indicator | Green LED (ON) indicates Normal (regulating mode) operation | | | | | |
| | Ac connection | Terminal block (L1op , neutral and ground wires) provided | | | | | |
| PHYSICAL | Dimensions (IN MM) | 240 W x 165 H x 415 D | | | | 400 W x 280 H x 540 D | |
| | Weight (approx.) | 16 kgs | 19 Kgs | 20 kgs | 23 kgs | 40 Kgs | 50 Kgs |
| | Annunciation | LED display for Regulation mode, Bypass mode & Fault conditions | | | | | |
| | Mounting | Pad Mounted | | | | | |
| ENVIRONMENTAL | Ambient temperature | 0 ^o to + 40 ^o centigrade (32 ^o to +104 ^o farhenite), 10 to 90% RH non-condensing | | | | | |
| | Cooling method | Natural Cooled | | | | | |
| PROTECTIVE FEATURES | Standards & Safety | Designed to meet UL 60950-1 standards. Protection class IP 20. | | | | | |
| | OV/UV cut off | Automatic trip in event of High/Low Voltage | | | | | |
| | 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) | | | | | |
| | 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 | | | | | |
| NOTE | 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. | | | | | | |