

2 Specification

2.1 MX341 Technical Specification

- **Sensing Input**
 - Voltage: 190 VAC to 264 VAC 1 phase, 2 wire
 - Frequency: 50 Hz to 60 Hz nominal
- **Power Input**
 - Voltage: 140 VAC to 220 VAC 3 phase, 3 wire
 - Current: 3 A per phase
 - Frequency: 100 Hz to 120 Hz nominal
- **Power Output**
 - Voltage: maximum 120 VDC
 - Current
 - continuous 2.7 A
 - transient 6 A for 10 seconds
 - Resistance: 15 Ω minimum
- **Regulation**
 - +/- 1.0% RMS¹
- **Thermal Drift**
 - 0.03% per 1 °C change in AVR ambient temperature²
- **Typical Response**
 - AVR response in 10 ms
 - Field current to 90% in 80 ms
 - Machine Volts to 97% in 300 ms
- **External Voltage Adjustment**
 - +/-10% with 1 k Ω , 1 W trimmer³
- **Under-Frequency Protection**
 - Set point 95% Hz ⁴
 - Slope 170% down to 30 Hz
- **Unit Power Dissipation**
 - 12 W maximum
- **Analogue Input**
 - Maximum input: +/- 5 VDC⁵
 - Sensitivity: 1V for 5% Alternator Volts (adjustable)

¹ With 4% engine governing

² After 10 minutes

³ Applies to Mod status D onwards. Alternator de-rate may apply. Check with factory

⁴ Factory set, semi-sealed, jumper selectable.

⁵ Any device connected to the analogue input must be fully floating (galvanically isolated from ground), with an insulation strength of 500 VAC

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- Input resistance 1 k Ω
 - **Quadrature Droop Input**
 - 10 Ω burden
 - Maximum sensitivity: 0.07 A for 5% droop, zero power factor
 - Maximum input: 0.33 A
 - **Over-Voltage Detection**
 - Set point: 75 VDC
 - Time delay: 10 s (fixed)
 - **Environmental**
 - Vibration
 - 20 Hz to 100 Hz: 50 mm/sec
 - 100 Hz to 2 kHz: 3.3 g
 - Operating temperature: -40 °C to +70 °C
 - Relative Humidity 0 °C to 70 °C: 95%⁶
 - Storage temperature: -55 °C to +80 °C

⁶ Non condensing.