



Enjoy proven, dependable, high performance with Basler Electric's AVC line. These extremely rugged and reliable regulators provide performance and functionality that revolutionized the modern analog voltage regulator market, and they are still unrivaled today. Others have attempted to imitate the AVC's features and functions, but only the AVC remains the total solution.

FEATURES

- Integrated circuitry for compact size, simplicity, high reliability
- Extremely rugged
- Exciter field current 4 A continuous, 7 A forcing
- Regulation accuracy better than $\pm 1.0\%$ no-load to full-load
- Fast response
- Frequency compensation
- Overexcitation shutdown
- Electromagnetic Interference (EMI) suppression

BENEFITS

- Voltage regulation performance is constant over the entire operating temperature range without derating or degradation.
- Potted design allows installation in harsh environments.
- Reduce or eliminate expensive service calls because of the reliable, rugged construction.
- Volts-per-hertz limiting, overexcitation shutdown, and provisions for external voltage adjustments make the AVC line a good fit for most applications. It's the "universal" regulator that reduces inventory to one device on the shelf.
- Small size for easy installation in virtually any generator terminal box.
- Eliminate settings errors with simple adjustments.

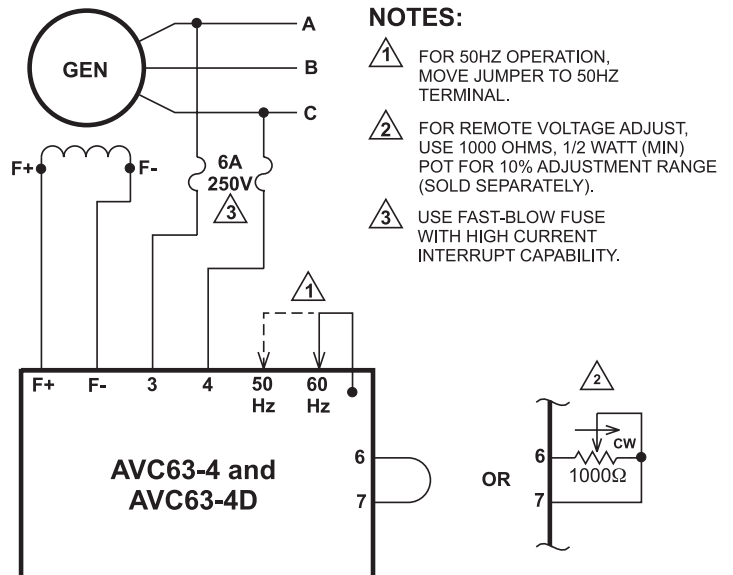


Figure 1 - AVC63-4/4D Connection Diagram for a Typical Application

SPECIFICATIONS

Input Power (1-Phase)

Range: 190 to 240 Vac, $\pm 10\%$
 Frequency: 50/60 Hz, $\pm 10\%$
 Burden: 500 VA

Output Power

Max Continuous: 63 Vdc at 4 Adc (252 W)
 One-Minute Forcing: 100 Vdc at 7 Adc (700 W)
 with 240 Vac power input

Sensing Input (1-Phase)

(Common with input power)
 Range: 190 to 240 Vac, $\pm 10\%$
 Frequency: 50/60 Hz, $\pm 10\%$

Voltage Adjustment

Range: 171 to 264 Vac

Regulation Accuracy

Better than $\pm 1\%$, no-load to full-load

Response Time

<1.5 cycles for $\pm 5\%$ change in sensing voltage

EMI Suppression

Internal EMI filtering

Overexcitation Shutdown

Field voltage shuts down after time delay if exciter field voltage exceeds 100 Vdc, $\pm 5\%$

Voltage Buildup

Automatic voltage buildup occurs for residual generator voltages as low as 6 Vac.

Power Dissipation

8 W maximum

Agency/Certifications

CSA certified, UL recognized, EAC certified

Environmental

Operating Temp: -40°C to 60°C (-40°F to 140°F)
 Storage Temp: -65°C to 85°C (-85°F to 185°F)
 Shock: 20 G in three perpendicular planes
 Vibration:
 2 to 27 Hz: 1.3 G
 27 to 52 Hz: 0.036" double amplitude
 52 to 1000 Hz: 5 G

Physical

Weight: 8 oz (220 g)
 Dimensions (WxHxD):
 3.97" x 2.69" x 2.20"
 (100.8 mm x 68.3 mm x 55.9 mm)

For complete specifications, download the instruction manual at www.basler.com.

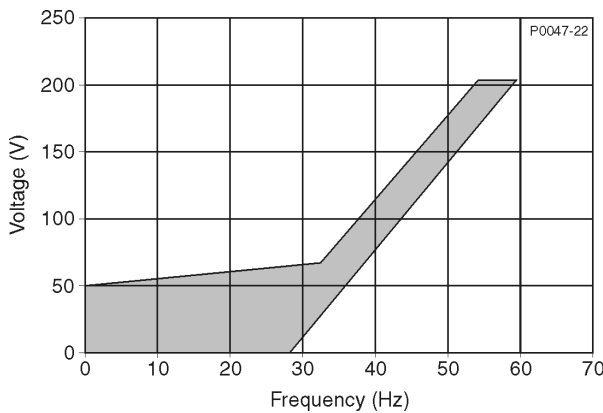


Figure 2 - AVC63-4/4D Frequency Compensation Characteristic 60 Hz

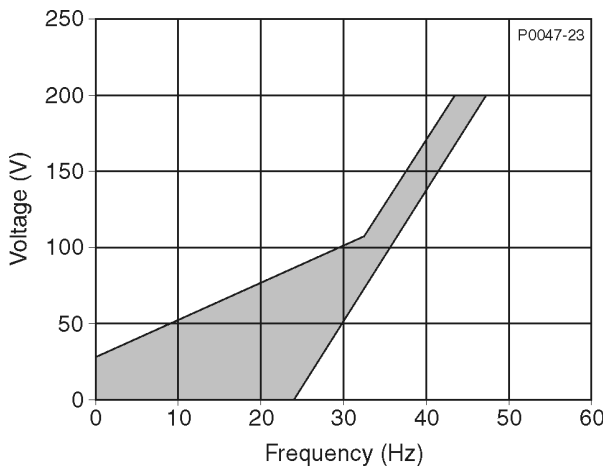


Figure 3 - AVC63-4/4D Frequency Compensation Characteristic 50 Hz

RELATED PRODUCTS

- AVC63 Series Voltage Regulators provide the performance and functionality that revolutionized the modern analog voltage regulator market.
 - [AVC63-12](#)
 - [AVC63-4A](#)
 - [AVC63-7, AVC63-7E](#)
- [BE1-11g Generator Protection System](#)
 - Offers a complete generator protection system.
- [BE3 Series Industrial Relays](#)
 - Provides industrial application protection related to Auto Transfer, Distribution, Generators, Motors, Process Control, and Transformers.
- [DECS-100 Digital Excitation Control System](#)
 - Provides precise voltage regulation and exceptional system response, while providing valuable protection of the generator and excitation system.
- [DGC-2020 Digital Genset Controller](#)
 - Provides genset and transfer switch control, metering, protection and programmable logic in a simple, easy to use, reliable, rugged, and cost effective package
- [DGC-2020ES Digital Genset Controller](#)
 - Total system solution for emergency and stand-alone generator set applications.
- [DGC-2020HD Digital Genset Controller](#)
 - An advanced but rugged, genset control system designed for paralleling and complex load sharing schemes.

ACCESSORIES

- Remote Adjustment Rheostat
 - 1000 ohm, 2 W rheostat with locking slotted shaft, Basler Electric P/N 17727