

DESCRIPTION

Acrison's Model 060 is an industrial-duty, variable speed SCR-DC motor controller providing accurate and dependable speed control of direct current (DC) motors used primarily as variable speed drives for Acrison's various model feeders.

Standard Features

- Full wave rectification
- Three digit digital thumbwheel speed selector
- Current limiting (power-on indicator blinks whenever current limiting is activated)
- Adjustable minimum and maximum speed settings
- Adjustable IR compensation (for armature feedback)
- Circuit breaker On/Off switch
- Remote run dry contact closure input
- Standard enclosure is dust-tight/water-tight

Specifications

- Speed range (from maximum speed):
 - 30:1 with armature feedback
 - Speed regulation: ± 2 percent of selected speed
 - Linearity: ± 2 percent of maximum speed (1800 RPM)
 - Repeatability: ± 0.5 percent of set point
 - 50:1 with digital tachometer feedback
 - Speed regulation: ± 0.5 percent of selected speed
 - Linearity: ± 0.25 percent of maximum speed (1800 RPM)
 - Repeatability: ± 0.1 percent of set point
- Ambient temperature range:
 - In standard enclosure: -20° to 40° C
 - Plate mounted or in optional enclosure: -20° to 50° C
- Input voltage: 115/230 VAC ($\pm 10\%$), 50/60 Hertz, single phase
 - Armature voltage: 0–90/0–180 VDC
 - Field voltage: 100/200 VDC, 3 amps maximum

Options

- Digital speed indicator (3 digit)
- Plate mounting
- JIC or NEMA enclosures
- Isolated run and alarm SSR outputs, rated 24–280 VAC, 4 amps with 4,000 volt isolation, fused at 1 ampere
- Direct or ratio set point select
- External Inputs:
 - 4–20 mA (250 Ω)
 - 10–50 mA (100 Ω)
 - 0–6 VDC (600 K Ω)
 - 0–10 VDC (200 K Ω)
- Output Signals:
 - 4–20 mA (250 Ω , maximum)
 - 10–50 mA (100 Ω , maximum)
 - 0–6 VDC (2 K Ω , minimum)
 - 0–10 VDC (2 K Ω , minimum)
- RS-422 or current loop Serial communication. Protocols available include Modbus RTU, Modbus ASCII, Allen Bradley DH/DHP, ASCII DB, Siemens 3694R, Honeywell TDC-3000 PLCG/DHP/SI and Fisher EIC. Ethernet and Profibus network capability also available.

Acrison®

Model 060 Variable Speed SCR-DC Motor Controllers



Enclosures

- For 1/8 to 1 horsepower DC motors:
 - Standard enclosure measures 11.8 x 6.7 x 4.7 inches including heatsink
 - Weight: 5 lbs.
- For 2 to 5 horsepower DC motors:
 - Standard enclosure measures 11.8 x 11.4 x 6.1 inches including heatsink
 - Weight: 15 lbs.

— **acrison, inc.** —