

## DESCRIPTION

Acrison's Model 040 is an inexpensive, industrial-duty, armature feedback, variable speed SCR-DC motor controller providing dependable speed control of direct current (DC) motors used primarily as variable speed drives for Acrison's various model feeders.

The Model 040 Controller's NEMA 4 (IP-65) Enclosure is designed for applications requiring washdown water-tight integrity. Its housing is ruggedly constructed of die cast aluminum which is protected with an acrylic coating for the ultimate in corrosion resistance. All switches are sealed with rubber boots and the main speed potentiometer contains a shaft seal.

The Model 040 Controller is available in two configurations: the Basic Model 040, which includes the standard features below, and either an Analog Input Module or a Serial Communication Module. The Analog Input Module provides isolation and accepts either 0–25 VDC, 0–120 VDC, 1–5 mADC, 4–20 mADC or 10–50 mADC. The Serial Communication Module provides current loop serial communication to interface with an Acrison weigh feeder controller. Both options utilize an Auto/Hand switch for either manual set pot control or automatic control from the external source.

## Standard Features

- Power On, Current Limiting and Stop LEDs
- Electronic overload protection
- Current limiting
- Armature feedback
- Adjustable minimum and maximum speed settings
- Adjustable IR compensation
- Adjustable acceleration and deceleration settings
- Enclosure is NEMA 4X and IP-65 washdown and water-tight for indoor and/or outdoor use
- UL, CSA and CE certifications

## Specifications

- For 1/8 to 1 horsepower DC motors
- Speed range (from maximum speed): 30:1
- Load regulation:  $\pm 1$  percent of base speed
- Linearity:  $\pm 0.5$  percent of base speed
- Ambient temperature range: 0° to 50 C°
- Input voltage: 115 or 230 VAC ( $\pm 10\%$ ), 50/60 Hertz, single phase
- Armature voltage: 0–90 or 0–180 VDC
- Field voltage: 100 or 200 VDC
- Current limiting: 0–200 percent of range setting
- Timed current limiting: 0.5–15 seconds

# Acrison®

## Model 040 Variable Speed SCR-DC Motor Controller



## Options

- RFI Filter Kit (shipped loose)

## Enclosure

- Size: 5.9" wide x 9.5" high x 5.0" deep (150 mm x 241 mm x 127 mm)
- Weight: 4.5 lbs. (2.04 kg)

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