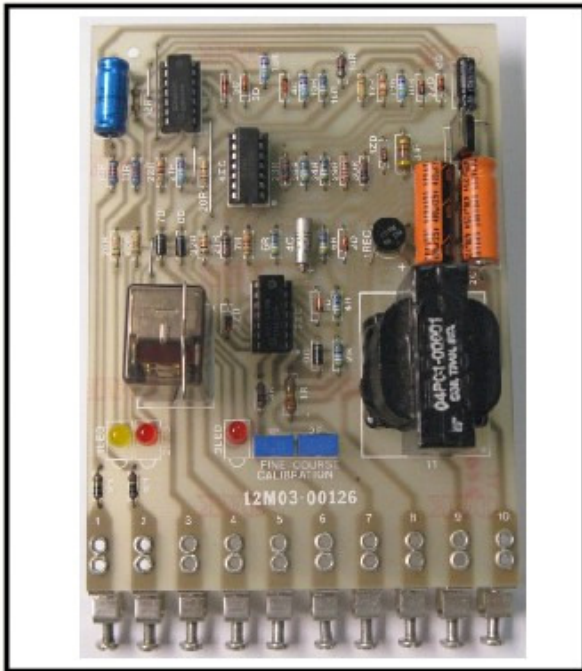


MODEL 237 TACH LOSS AND OVERSPEED DETECTOR

PART NUMBER 12M03-00126



GENERAL DESCRIPTION

The MODEL 237 TACH LOSS and OVERSPEED DETECTOR is used with a DC motor drive to protect against a runaway condition if the tachometer feedback speed control signal is lost. It will also protect against speeds above the normal maximum.

The detector is wired into the control circuit to shut down the drive if an abnormal loss of tach voltage occurs. It will also shut down the drive if the tachometer signals a speed 10% greater than normal maximum. Since some drives are designed to run at zero speed, such as a Winder in stall tension, this assembly is designed to distinguish between normal and abnormal lack of tach voltage. If the tach signal is missing and armature voltage is over 15%, a malfunction is indicated and the drive will shut down.

Advanced circuit design insures a high level of accuracy, noise immunity and reliability in industrial environments. A field-proven mounting arrangement provides reliable connection, but allows easy removal without disturbing permanent wiring. Front access and detailed technical manual makes installation and service easy.

The MODEL 237 TACH LOSS DETECTOR can be used with other REFLEX® SERIES 200 CONTROL MODULES and POWER CONVERTERS. It is compatible with equipment of other manufacturers.

FEATURES

- COMPACT, SELF-CONTAINED
- MODERATELY PRICED
- WIDE RANGE OF ADJUSTMENT
- COMPATIBLE WITH PACKAGED DC DRIVES OF MOST MANUFACTURERS
- POSITIVE FRONT-ACCESS CONNECTION
- EASILY REMOVED, REPAIRED OR REPLACED
- CONSERVATIVELY RATED FOR RELIABILITY
- DETAILED TECHNICAL MANUAL

TYPICAL APPLICATIONS

- WINDERS
- TEST STANDS
- PROCESS LINES

OPTIONS

- COMPATIBLE WITH OTHER SERIES 200 CONTROLS (See Bulletin SB200)

SPECIFICATIONS

SUPPLY: 120V AC $\pm 10\%$
50/60 Hz, Single Phase

AMBIENT TEMPERATURE: 0° to 40°C
(32°-104°F) 50°C in Cabinet

INPUTS: Tachometer Generator, 25 to 250 Volts AC or DC at rated speed (higher voltage with external scaling resistor). Motor armature voltage of 0 to 250 volts DC (higher voltage with external divider).

OUTPUT: Relay Contact, Form C, rated 2A at 120V AC. Red LED indicating relay energized.

ADJUSTMENTS: Calibration — Coarse and Fine.

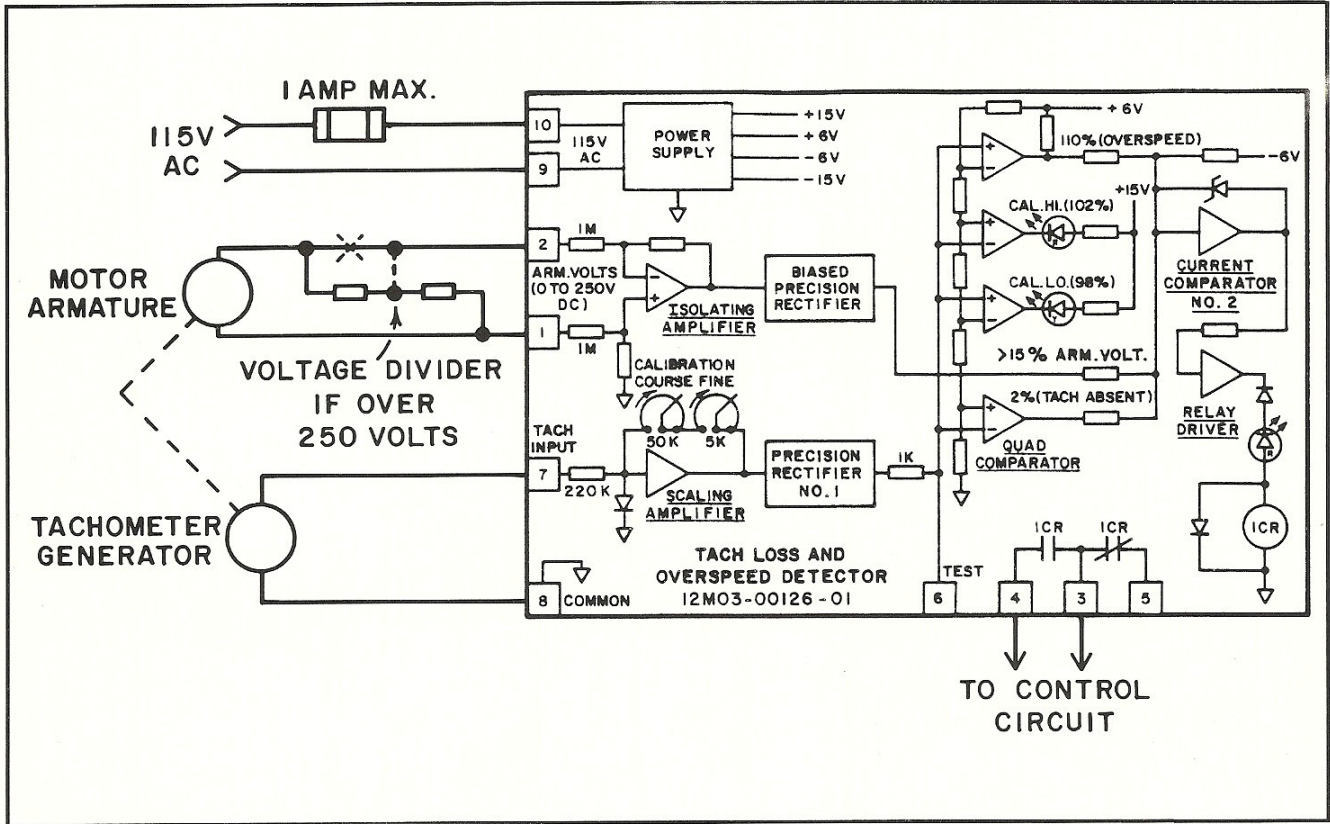


GEMINI CONTROLS LLC
W61 N14280 TAUNTON AVE.
PO BOX 380
CEDARBURG, WI 53012
www.geminicontrols.com

PHONE: (262)-377-8585
FAX: (262)-377-4920
email: sales@geminicontrols.com



MODEL 237 TACH LOSS AND OVERSPEED DETECTOR



MODEL 237 TACH LOSS AND OVERSPEED DETECTOR

PART NUMBER 12M03-00126-01
APPLICATION NOTES

1. The assembly may be used with tachometer generator voltages in excess of 250 volts, by the addition of an appropriate scaling resistor in series with terminal 7 (1K ohms per volt in excess of 250 volts).
2. If a shutdown due to a circuit malfunction is required before the drive has reached 110% speed, this assembly can be used in conjunction with the Model 201 Voltage Sensitive Relay used as a "Rate Detector" (See Application Notes for Part Number 12M03-00101).
3. If armature voltage feedback higher than 250 volts is required, a 50K divider consisting of two 5 watt resistors (or one 50K wirewound resistor with centertap slider) should be connected across the armature. A maximum 250 volt signal from the divider is then applied to terminals 1 and 2.