Cimco

Model 40

CIMCO ELECTRONICS, INC.
www.cimcoelectronics.com
E-MAIL: cimco@cimcoelectronics.com

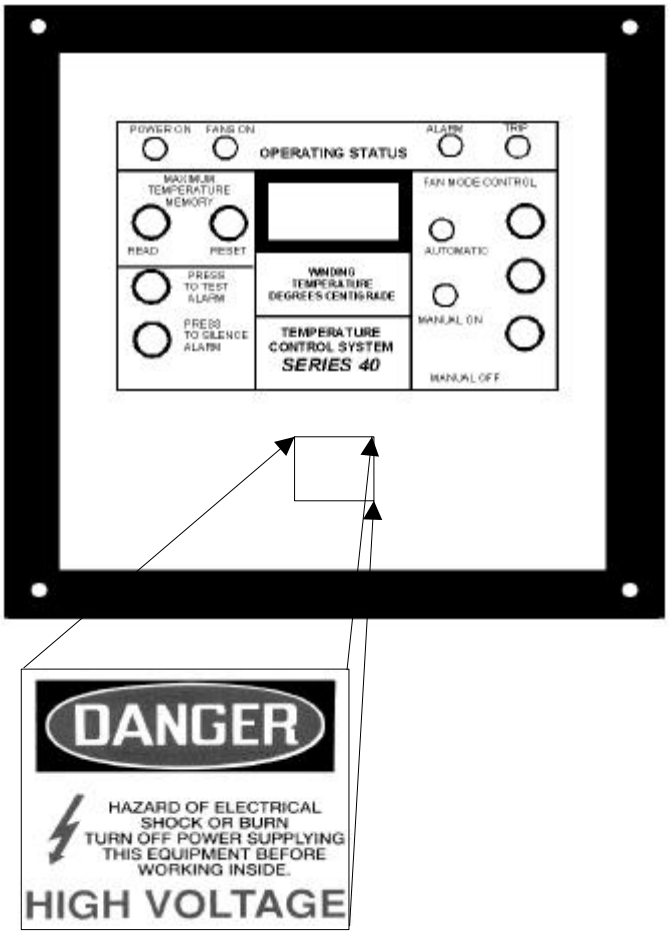
26 MAIN STREET, P.O. BOX 248
WEST MIDDLESEX, PA 16159
PHONE (724) 528-9559
FAX (724) 528-1108

Standard Features

- **Monitors and displays winding temperature**
- **Micro-controller based**
- **Three-digit LED display**
- **Manually display maximum temperature in memory**
- **Status lights for power, fans, alarm, and trip**
- **Customer can select relay control settings**
- **Fan power relay**
- **Two alarm relays for remote monitoring**
- **Trip relay for remote monitoring**
- **Input power 120/240 VAC - 50/60 Hz**
- **Retains maximum temperature memory and relay setpoints with loss of power**
- **Auto-restart after loss of power**

Model 40

WINDING TEMPERATURE INDICATOR AND CONTROLLERS
FOR DRY-TYPE AND CAST COIL TRANSFORMERS



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RELAYS AND FUSES

1. **Fan power relay**
   1. Fail safe
   2. Form B
   3. Horse power
      1. One horse power at 120 vac
      2. Two horse power at 240 vac
   4. Current rating
      1. 15 amps at 120 vac
      2. 15 amps at 240 vac
   5. Fan fuse rating - 15 amps
2. **Alarm relay**
   1. Fail safe
   2. Terminals 1, 2, and 3
   3. Form C
   4. One relay
      1. Horse power
         1. One horse power at 120 vac
         2. Two horse power at 240 vac
      2. Current rating
         1. Normally open - 15 amps
         2. Normally closed - 10 amps
3. **Alarm relay**
   1. Fail safe
   2. Form A
   3. Horse power
   4. Current rating
4. **Trip relay**
   1. Form C
   2. One relay
      1. Horse power
         1. One horse power at 120 vac
         2. Two horse power at 240 vac
      2. Current rating
         1. Normally open - 15 amps
         2. Normally closed - 10 amps
5. **DC current for all relays**
   1. Resistive load
      1. Normally open contacts
      2. 20 amps at 28 vdc
   2. Resistive load
      1. Normally closed contacts
      2. 10 amps at 28 vdc

OTHER HARDWARE

1. **Overlay on front of instrument**
   1. LEXAN
   2. Black with white trip
   3. Your LOGO - optional
   4. One piece
   5. Waterproof
   6. UV resistant
   7. Smooth face-plate
   8. All switches and lights are protected from shipping and shop damage.
   9. Includes OSHA warning label.

INSTRUCTIONS

1. **Connections**
   1. Located on the back side of the instrument
   2. Connect Type E thermocouple on left side (red lead is always negative.)
   3. Connect alarm leads
   4. Connect fan leads
      1. Contact on Terminal 8 connects to Terminal 9 inside the instrument.
   5. Connect power leads to terminal 7 and 8.
   6. Contact Ratings:
      1. Normally open; 15 amps resistive; 1 HP at 120 vac, 2 HP at 240 vac
      2. Normally closed; 10 amps resistive
2. **Set-point Adjustments**
   1. Order each instrument with desired set-points.
   2. Contact Cimco for detailed instructions.
3. **Change Set-points**
   Contact Cimco

MODEL 40 HARDWARE SPECIFICATIONS
JULY 17, 2001
DRAWING 7-17-01

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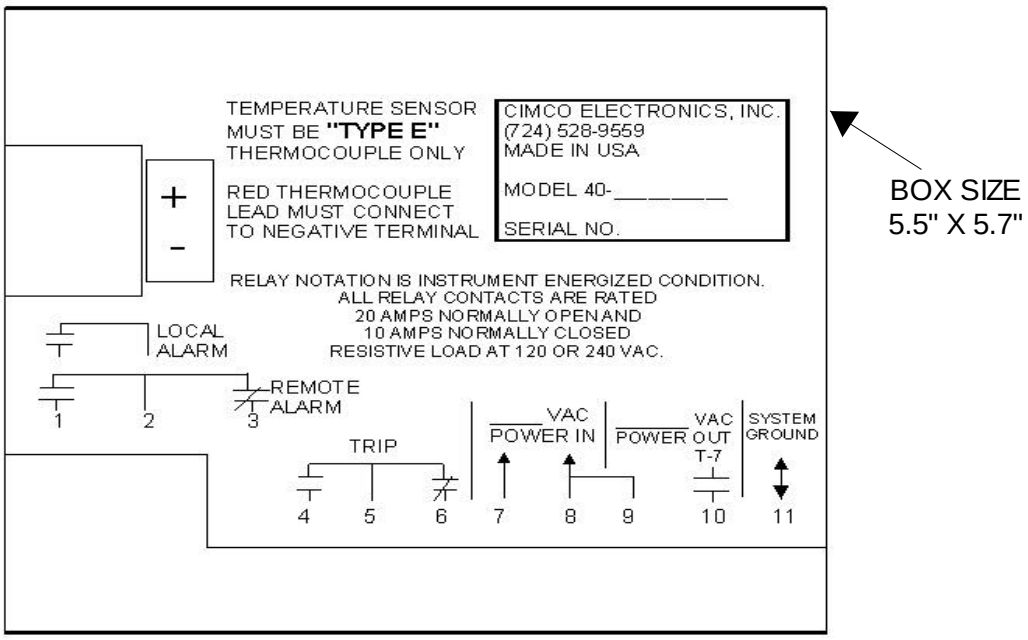
CAUTION

1. MODEL 40 INSTRUMENTS USE MICRO-CONTROLLERS FOR SIGNAL PROCESSING AND LOGIC CONTROL.
2. MODEL 40 INSTRUMENTS MUST BE SHIELDED FROM MAGNETIC FIELDS GENERATED BY TRANSFORMERS.
3. EACH MODEL 40 INSTRUMENT IS SHIPPED FROM CIMCO WITH A CARBON STEEL FACE-PLATE.
4. CABINET DEPTH IS 2.5 INCHES.
5. CONNECTION INSTRUCTIONS ARE INCLUDED ON THE BACK-PLATE.
6. CALL CIMCO FOR ADVICE ON NON-STANDARD INSTALLATIONS WITH ABNORMAL MAGNETIC OR ELECTRIC FIELDS.
7. ALWAYS CONNECT SYSTEM GROUND TO TERMINAL 11.



BACK SIDE VIEW (NOT TO SCALE)

MODEL 40 CONNECTIONS
JULY 18, 1997
DRAWING FLIER-01-A