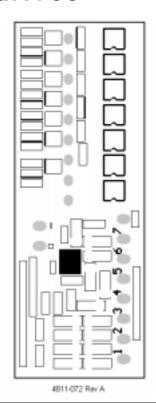
## drives



# E-Series Isolated Interface 110Vac Part No. Ell1

- 110Vac inputs
- Provides isolation
- ◆ Direct interface to E-Series
- Uses E-Series power supply
- ♦ Fits inside **E-Series** termination area
- Wide range of working voltages
- Small and compact

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#### 110VAC ISOLATED INTERFACE

The **E-Series** 110Vac Isolated Interface has been specifically designed for use with the **Bardac Drives E-Series** induction motor controller family.

The standard **E-Series** digital inputs are 24Vdc logic which are compatible with clean contact relay logic and transistor PLC outputs.

The E-Series 110Vac Isolated Interface enables the user to interface 110Vac control logic levels for the digital control of the E-Series. Seven channels are provided. Six channels are for Multifunction Inputs MFI-1 to MFI-6 (E-Series terminals T13 to T18 respectively). The seventh channel is for a 110Vac external trip input or for direct connection to a motor positive temperature coefficient thermistor (PTC). This channel is supplied with two sets of terminals - one set for direct connection of a PTC and the other for connection of a 110Vac external trip input. Refer to Figure 1 for details.

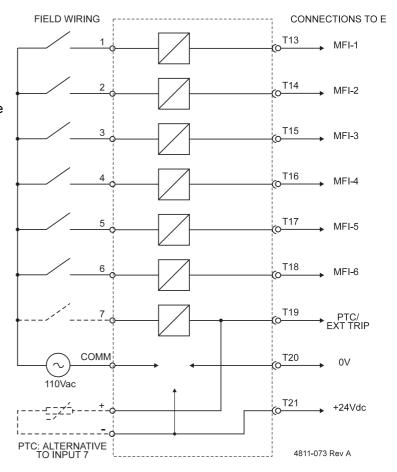


Figure 1: Elite Isolated Interface Connection Diagram

#### **INSTALLATION**

Remove the **E-Series** terminal cover. Remove the green/yellow earth wire from **E-Series** terminal T20. Remove the three three-way connectors plugged into **E-Series** terminals T13-T21 inclusive.

Now fit these connectors to the 9 pins fitted to the terminal side of the Isolated Interface card. Before tightening the connector screws, insert the green/yellow earth wire with the pin into the connector that will be inserted into **E-Series** terminal T20. Refer to Figure 2 for details.

Ensure that the **E-Series** drive is set for Active High. (Screen I7b POLARITY = HI)

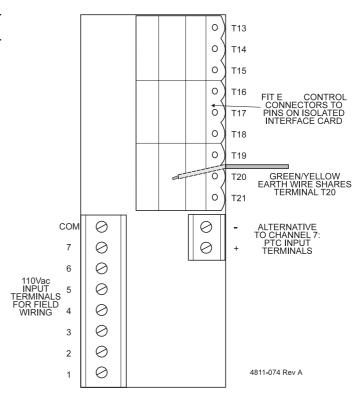


Figure 2: E-Series Isolated Interface Terminal Details

### **E-SERIES ISOLATED INTERFACE SPECIFICATIONS**

#### **Interface Power Supply**

Power Supply Voltage 24Vdc(**E-Series** Supply)

Power Supply Current 25mA (Maximum)

**Interface Input Terminals** 

Input Voltage 110Vac
Input Voltage Tolerance -30 to +20%
Frequency Range 48 to 62Hz

**Interface Propagation Delay** 

Input Low to High 4msec (Typical)

Isolation

Type Optical

**Dimensions** 

Width 35mm Height 90mm

Specifications are subject to change without notice.

4880-012 Rev A

#### **Bardac Corporation**

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