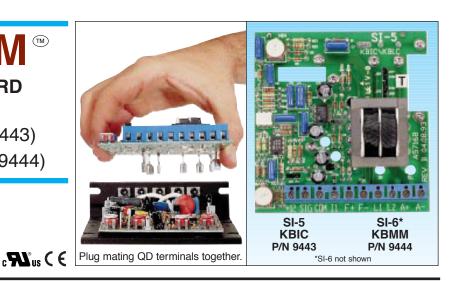
KBIC®, KBMM [®] BARRIER TERMINAL BOARD SIGNAL ISOLATORS

MODEL SI-5 for KBIC[®] (P/N 9443) MODEL SI-6 for KBMM[®] (P/N 9444)

- Provides Isolation for External Signal and Potentiometer Input
- Operates on 115/230 VAC 50/60 Hz
- Built-in Trimpots for MIN and MAX
- Includes Barrier Terminal Block



SPECIFICATIONS

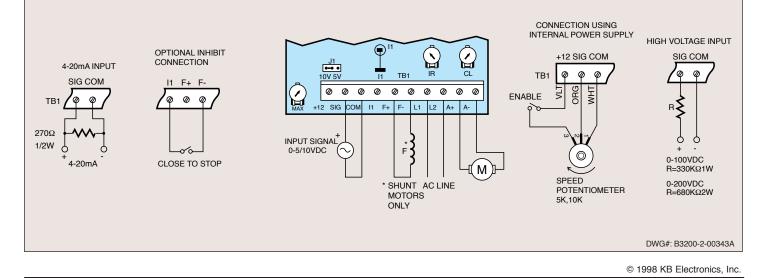
AC Power Requirements 115 or 230 VAC - 50/60 Hz
Signal Input Voltage $0 - 5, 0 - 10, 0 - 100^{(1)}, 0 - 200^{(2)}$
Signal Input Current 4 - 20 mA(3)
Maximum Output Voltage 11 Volts DC
Maximum Output Current 10 mA
Range of MIN Trimpot ± 3 Volts
Range of MAX Trimpot 0 – 2 Times input Voltage Max. of 11V
Linearity ± .1%(4)
Temperature Drift 4 mV per °C
Notes: 1. Requires the addition of a 330K – 1W resistor in series with input signal (J1 set to "10V").

- 2. Requires the addition of a 680K-2W resistor in series with input signal (J1 set to "10V").
- 3. Requires the addition of a $270\Omega-1/2W$ resistor in parallel with input signal (J1 set to "5V").
- 4. Linearity of SI-5 and SI-6 does not include the linearity specification of the speed control.

DESCRIPTION

The SI-5 and SI-6 Barrier Terminal Board Signal Isolators convert standard KBIC[®] and KBMM[™] controls to an isolated input. The Isolators contain a selectable jumper (J1) that allows for either a 0 – 5 or 0 – 10 VDC input signal. By using external resistors, the input signal can be changed to 0 – 100 VDC, 0 – 200 VDC and 4 – 20 mA. The output voltage is 0 – 10 VDC which can be rescaled via the built-in MIN and MAX trimpots. Selectable AC Line jumpers (J2A, J2B) allow the SI-5 and SI-6 to be used either with 115 or 230 VAC controls. In addition, a +12 VDC power supply voltage is furnished which can be used to power remote transducers or provide an isolated speed potentiometer. Installation is made by simply mating the SI-5 with the KBIC[®] and the SI-6 with the KBMM[™] speed controls via the built-in quick-connect terminals.

CONNECTION DIAGRAMS





KB ELECTRONICS, INC. 12095 NW 39th Street, Coral Springs, FL 33065-2516 (954) 346-4900 • FAX (954) 346-3377 Outside Florida Call TOLL FREE (800) 221-6570 www.kbelectronics.com