

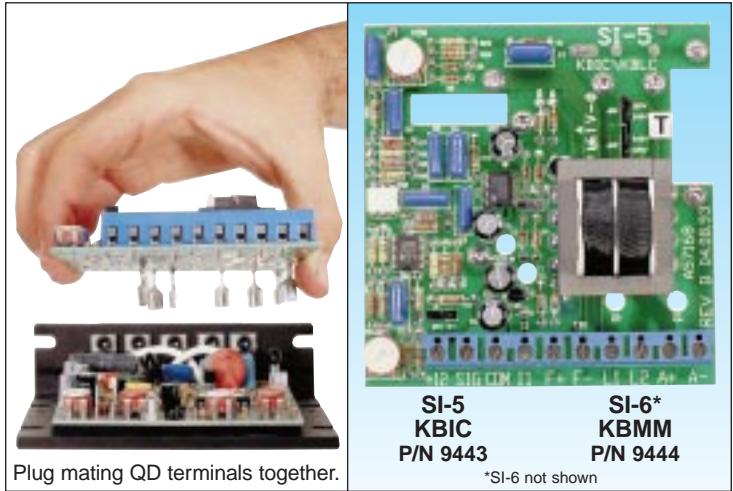
KBIC[®], KBMM[™]

BARRIER TERMINAL BOARD SIGNAL ISOLATORS

MODEL SI-5 for KBIC[®] (P/N 9443)

MODEL SI-6 for KBMM[™] (P/N 9897)

- 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



**SI-5
KBIC
P/N 9443**

**SI-6*
KBMM
P/N 9444**

*SI-6 not shown

Plug mating QD terminals together.

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

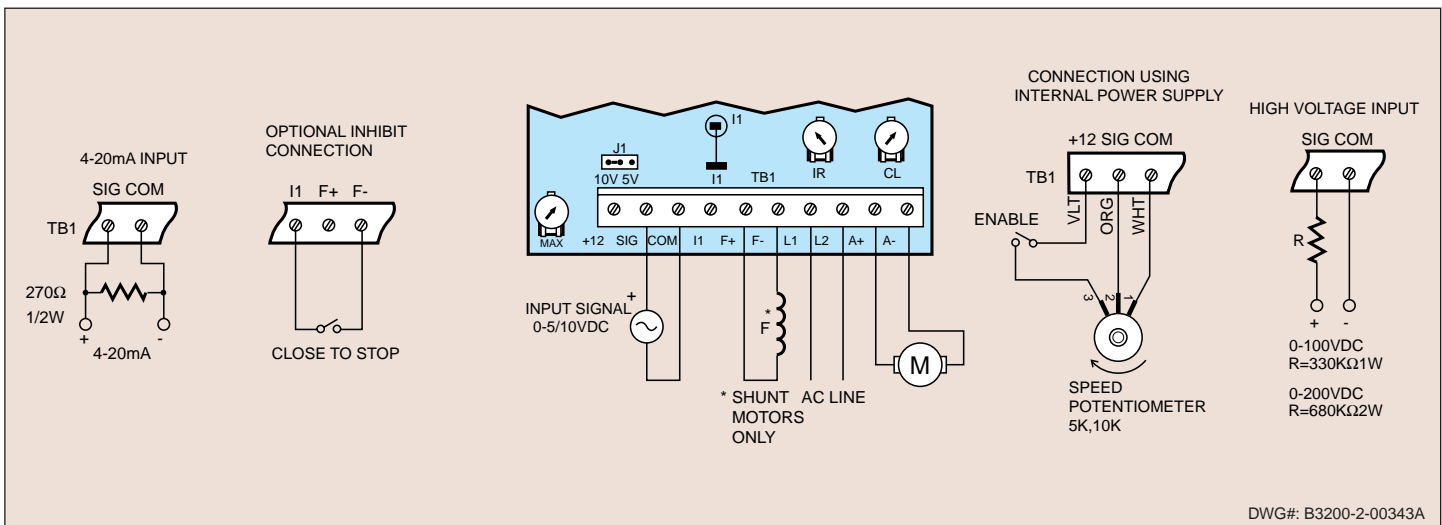
Notes:

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 270Ω – 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



DWG#: B3200-2-00343A

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