

SIVFR

SIGNAL ISOLATOR with RUN/FAULT RELAY

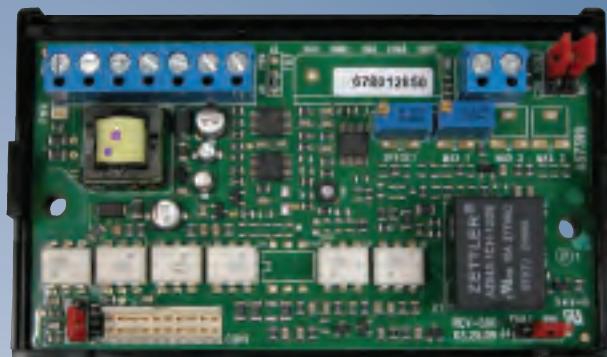
For all KBVF Models

Signal Isolator

Provides isolation between non-isolated signal sources and the Drive.

Run/Fault Relay

Used to turn on or off equipment or signal a warning if a fault occurs.



SIVFR (Part No. 9597)

STANDARD FEATURES

- Multi-Turn trimpots for MIN & MAX Speed Adjustments.
- Accepts a wide range of Voltage Input Signals.
- Jumper Selection for Voltage or Current Input Signal.
- Barrier Terminal Block Facilitates Wiring.
- Protective Cover for Added Safety.
- Power On LED.
- Run/Fault Relay.

OPTIONAL FEATURES

- Second and third isolated signal inputs. (Part No. 9588).
- Analog signal output. (Part No. 9589).

DESCRIPTION

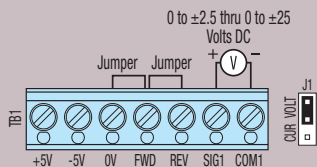
The SIVFR is used to isolate, amplify, and condition DC voltage and current signals from any source (power supplies, motors, tachometer generators, transducers, and potentiometers). It also provides isolated inputs to control motor direction and an isolated power supply for transducer or potentiometer operation. All input connections are isolated from the AC line and motor wiring. The SIVFR installs easily onto the side of the drive with the mounting base and two screws (provided). An adapter bracket is provided for use with 1/2 HP model drives. The SIVFR is supplied with a finger-safe panel, which may be used with the enclosure cover to close the unused exposed area of the SIVFR between Terminal Blocks TB1 and TB2.

The main features of the SIVFR include voltage (0 – 5 VDC), current (4 – 20 mA DC), or a potentiometer (5 k Ω) signal inputs and a Run/Fault Relay, which can be used to turn on or off equipment or signal a warning if a fault occurs. The SIVFR has jumper selectable features for signal input type (VOLT, CUR), relay operation (RUN, FAULT), relay output contacts (NO, NC), and for use with or without the drive's optional dynamic brake module (DBM, NDBM).

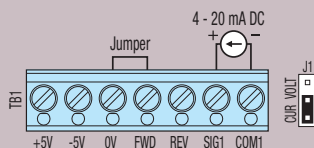
Other features of the SIVFR include a power on LED, barrier terminal blocks to facilitate signal input and Run/Fault Relay wiring, and multi-turn trimpots (MAX1, OFFSET) to readjust the SIVFR for use with 0 – 2.5 thru 0 – 25 VDC signal input voltages for specific applications.

Optional features of the SIVFR are a second and third isolated signal input (with a barrier terminal block and MAX2 and MAX3 adjustment trimpots for SIG2 and SIG3) and an analog signal output (with a barrier terminal block for Vout).

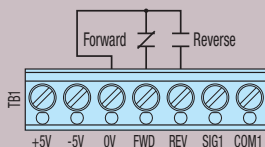
Bidirectional Voltage Following Signal Input Connection (J1 Installed in "VOLT" Position)



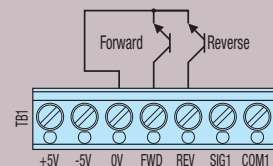
Unidirectional (Forward) Current Following Signal Input Connection (J1 Installed in "CUR" Position)



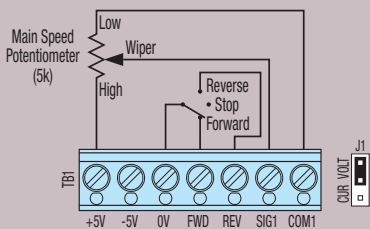
Form "C" Contact or Relay Forward-Stop-Reverse Connection



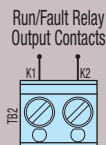
Open Connector Forward-Stop-Reverse Connection



Unidirectional Main Speed Potentiometer and Forward-Stop-Reverse Switch Connections (J1 Installed in "VOLT" Position)



Run/Fault Relay Connection



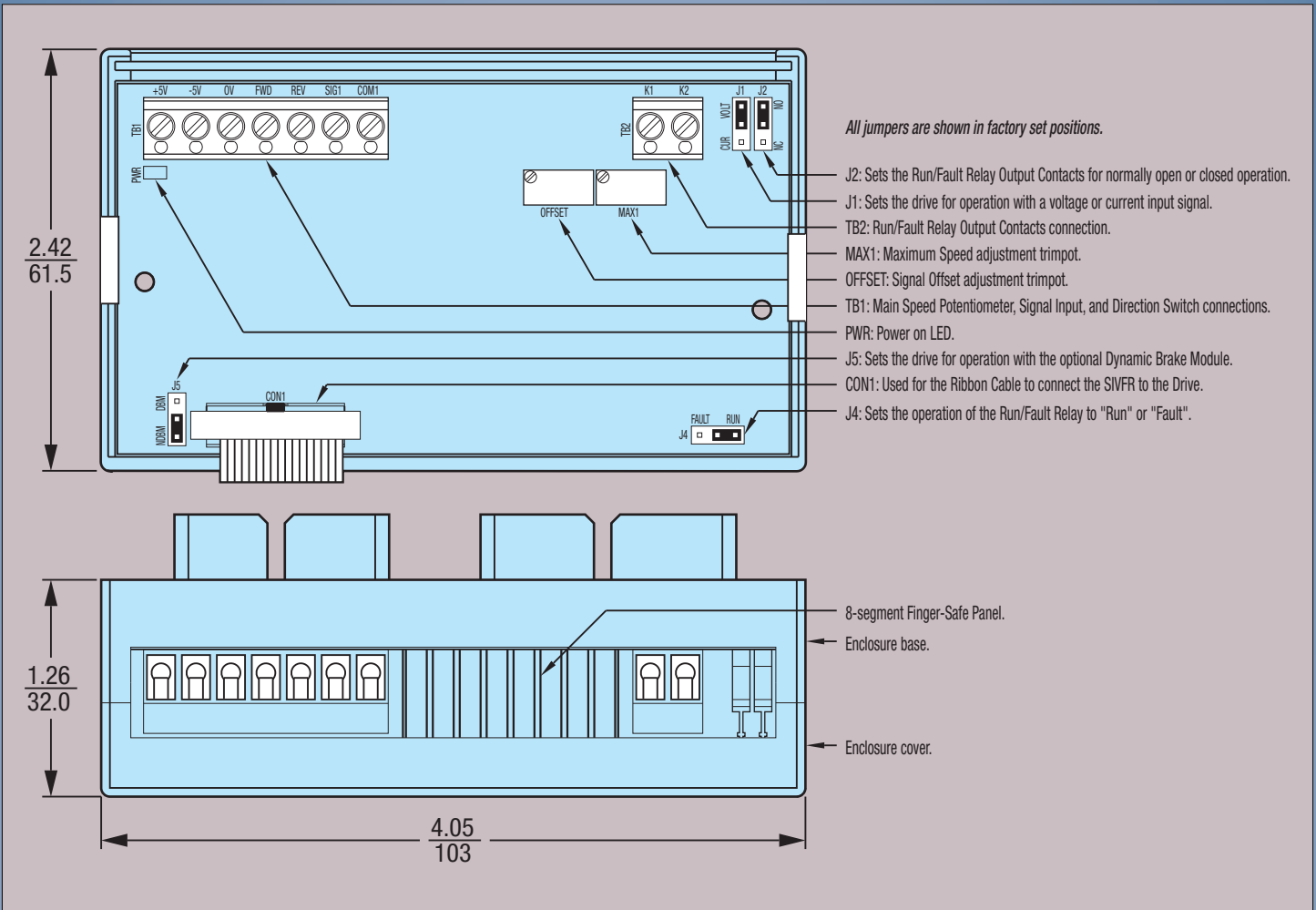
GENERAL PERFORMANCE SPECIFICATIONS

Description	Specification	Factory Setting
Voltage Following Input Range at SIG1 (MAX1 Trimpot) (Volts DC)	0 – ±2.5 thru 0 – ±25	0 – 5
Current Following Input Range at SIG1 (OFFSET Trimpot) (mA DC)	4 – 20	—
Potentiometer Operation (k Ω)	5	—
FWD and REV Input Switch Types	Dry Contact or Open Collector	—
+5V and -5V Power Supply Maximum Load Current Rating (mA DC)	5	—
Run/Fault Relay Output Contacts Ratings (Amps at 30 Volts DC, 125 Volts AC)	1, 0.5	—
Input/Output Linearity (%)	0.5	—
Thermal Drift (mV / °C)	1.0	—
Operating Temperature Range (°C / °F)	0 – 45 / 0 – 113	—



Automation and Control

SIVFR LAYOUT and MECHANICAL SPECIFICATIONS (Inches/mm)



FACTORY INSTALLED OPTIONS

