

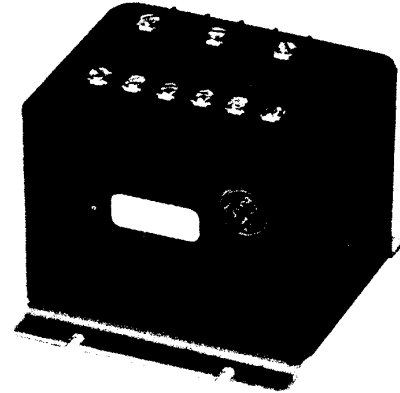


THREE PHASE VOLTAGE TRANSDUCER

MODELS: V53P and V53L

DESCRIPTION

The BEC model V53P monitors the phase to phase voltages of three-wire and four-wire, three-phase electrical systems. The V53L monitors the line-to-neutral voltage of four-wire electrical systems. These transducers can be used on 208, 240, and 480 volt three-phase systems. These transducers provide three separate 4-20mA outputs which are proportional to the three-phase input voltages.



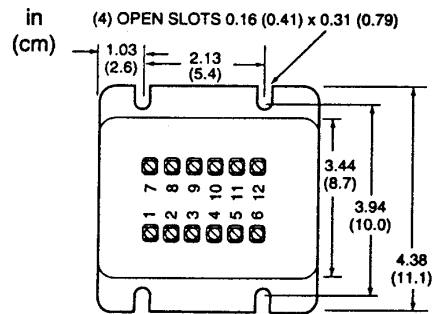
FEATURES

- * 208, 240, and 480V three-phase systems
- * Phase-to-phase and line-to-neutral voltage monitoring
- * Can be used on 50 Hz systems
- * Three 4-20mA outputs for monitoring each input voltage separately
- * Operates on 24 VDC power supply
- * Power supply input has reverse polarity protection
- * Mounting feet for ease of installation

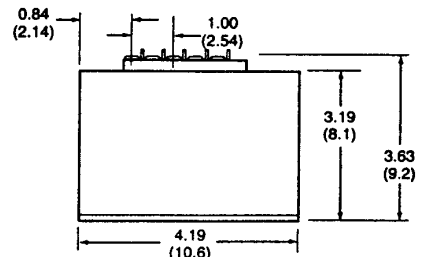
SPECIFICATIONS

V53P-480 (phase-to-phase)	
Low range voltage input	180-300 volts
High range voltage input	360-600 volts
V53P-120 (phase-to-phase)	
Voltage input range	90-150 volts (For 3-phase P.T. secondaries)
V53L-120 (line-to-neutral)	
Voltage input range	90-150 volts (For 208 & 240V 3-phase systems)
V53L-240 (line-to-neutral)	
Voltage input range	180-300 volts (For 480V 3-phase systems)
Input burden	0.1VA max
Frequency	50/60 Hz
Continuous overload	600 volts
Power supply voltage	24 VDC + or - 10%
Power supply current	150mA max
Output	4-20mA DC
Max loop resistance	600ohms/output
Accuracy	0.5% of full scale
Output ripple	< 1%
Response time	< 1.50 sec (10%-90%)
Dielectric test (1min)	1300 volts min
Operating temp range	-22 to 140F (-30 to 60C)
Shipping weight	1.3 lb (0.56kg)
Approvals	UL recognized

DIMENSIONS



TOP VIEW



SIDE VIEW





V53P Wiring

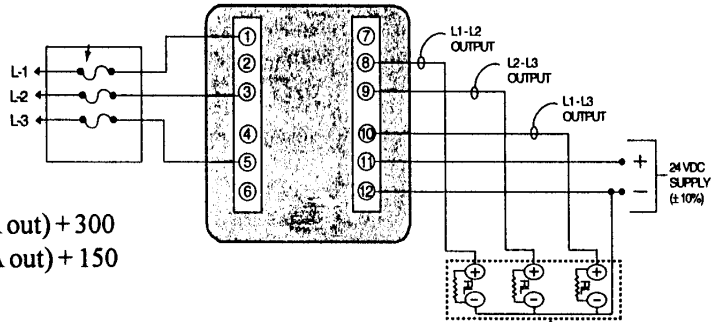
Wiring shown for 480V/30/60Hz (See Note 1 for other voltages)

APPLICATION:

- * Phase-to-phase voltage monitoring
* V53P-480 Voltage in (high range) = 15 (mA out) + 300
* V53P-480 Voltage in (low range) = 7.5 (mA out) + 150
* V53P-120 Voltage in = 3.75 (mA out) + 75

Note:

- 1. Wiring shown is for high range voltage input (360-600volts). For low range voltage (180-300 volts), wire to terminals 2,4 and 6 instead of 1,3 and 5.
2. V53P-120: Wire to terminals 2,4 and 6.
3. The installation must conform to all national and local codes and regulations.



TYPICAL 4-20 MA INPUTS TO PROCESSOR. MAXIMUM LOOP RESISTANCE IS 600 OHMS/OUTPUT INCLUDING PROCESSOR LOAD (R1) AND CONDUCTOR.

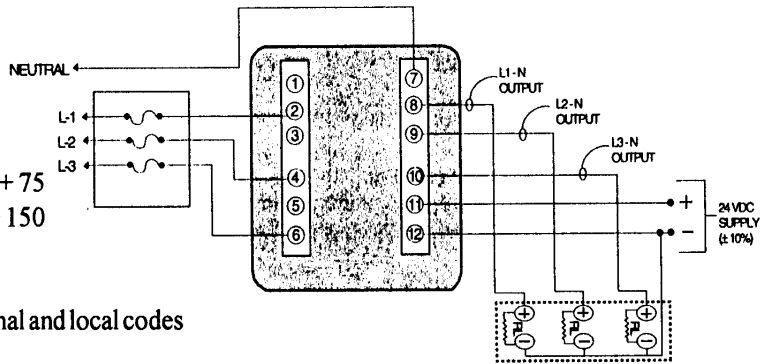
V53L Wiring

APPLICATION:

- * Line-to-neutral voltage monitoring
* Voltage in (V53L-120) = 3.75 (mA out) + 75
* Voltage in (V53L-240) = 7.5 (mA out) + 150

Note:

- 1. The installation must conform to all national and local codes and regulations.
2. The V53L is suitable for single-phase (line-to-neutral voltage monitoring).



TYPICAL 4-20 MA INPUTS TO PROCESSOR. MAXIMUM LOOP RESISTANCE IS 600 OHMS/OUTPUT INCLUDING PROCESSOR LOAD (R1) AND CONDUCTOR.

ORDERING INFORMATION

Table with 4 columns: Model Number, Description, and Voltage Range. Rows include V53P-480, V53P-120, V53L-120, and V53L-240.

