THREE-PHASE VOLTAGE TRANSDUCER *Model* 3VT

FEATURES

- Accurate, reliable voltage measurement.
- Three separate inputs, three separate outputs.
- Input/output isolation.

APPLICATIONS

- Designed for use in three phase applications which require inexpensive voltage measurement.
- Line voltage monitoring.

INPUT AC VOLTS	STANDARD OUTPUTS MODEL 3VT-				
	0 - 1mA*	0 - 10Vdc*	0 - 5Vdc*	4-20mA	4-20mA**
0 - 90	090A	090C	090CX5	090E	090E2
0 - 150	120A	120C	120CX5	120E	120E2
0 - 300	240A	240C	240CX5	240E	240E2
0 - 600	3940A	3940C	3940CX5	3940E	3940E2

Option X668: One output equals the sum of the three inputs.

ORDERING INFORMATION

Example: Three 0 - 120Vac inputs with three 0 - 1mA outputs.
3VT - 120A

*A, C & CX5 are self-powered from measured line.
**4 - 20mA loop-powered models, (15 - 40Vdc).
Std. 4 - 20mA models require 85 - 135Vac instrument power.

Optional 220Vac instrument power - Add suffix "**- 22**".
Transducer output is derived from the average absolute value of the input and calibrated in terms of the RMS value of the sine wave input.

MODEL 3VT SPECIFICATIONS

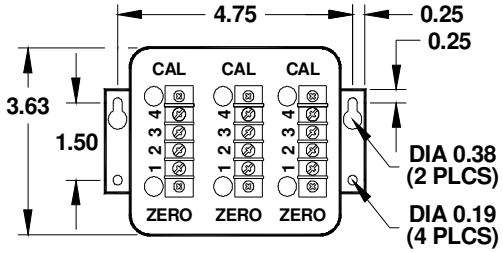
INPUTS

VOLTAGE: See tables
FREQUENCY RANGE: 50 - 400 Hz.
BURDEN (ohms):
90V, 150V Models: 1VA
300V Models: 2VA
600V Models: 2.8VA
OVERLOAD: Full-scale rating
DIELECTRIC TEST (Input/Output/Case): 1500Vac
INSTRUMENT POWER (std. "E" models):
85 - 135Vac, 50 - 400Hz, 10VA

OUTPUTS

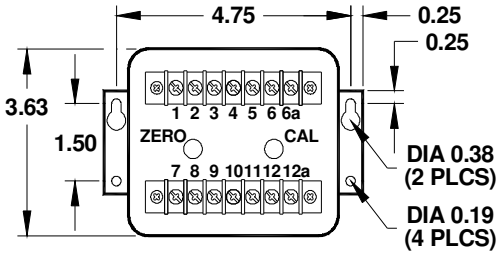
ACCURACY: ±0.25% F.S. @ 60Hz
Includes effects of linearity (10% - 100%) and setpoint.
±0.5% typical over frequency range.
OUTPUT RIPPLE: Less than 1.0% F.S.
RESPONSE: 400 milliseconds
OUTPUT LOADING (ohms):
0 - 1mA: 0 - 10K
5V & 10V: minimum 10M
4 - 20mA E: 0 - 500
4 - 20mA E2: 0 - 1400 @ 40V
FIELD ADJUSTABLE CAL.: ±5%
TEMP. EFFECT (-20°C to +60°C): ±1.0% RDG

CASE DIMENSIONS



CASE HEIGHT 5.38"
2.3 LBS

A, C, CX5 & E2 OUTPUTS



CASE HEIGHT 5.38"
2.0 LBS

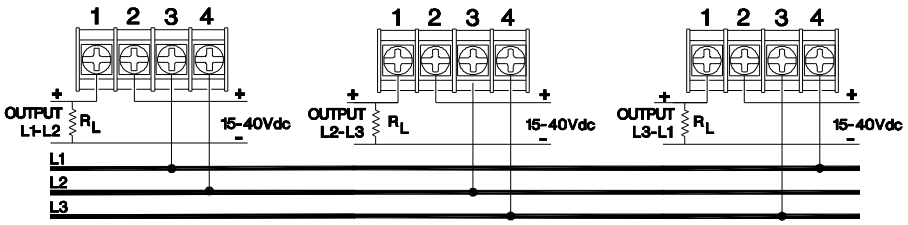
E OUTPUT

All dimensions in inches.

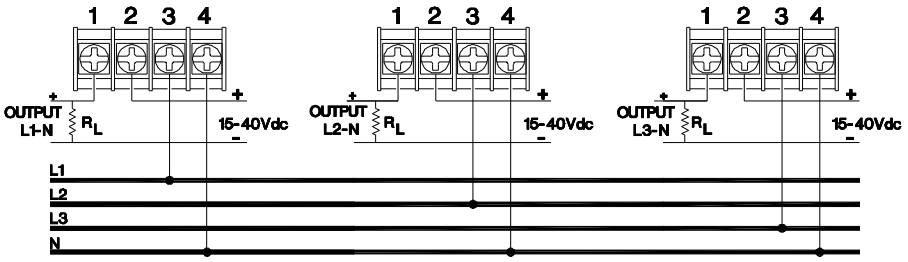
OHIO SEMITRONICS, INC.
4242 REYNOLDS DRIVE * HILLIARD, OHIO * 43026-1264
PHONE: (614) 777-1005 * FAX: (614) 777-4511
WWW.OHIOSEMITRONICS.COM * 1-800-537-6732

CONNECTION DIAGRAMS

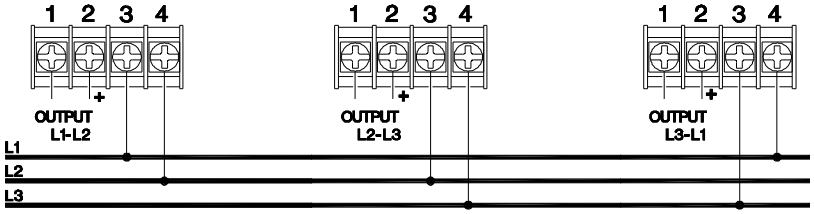
3 PHASE, 3 WIRE - E2 OPTION



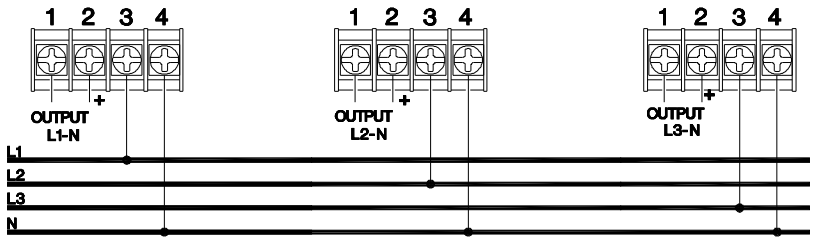
3 PHASE, 4 WIRE - E2 OPTION



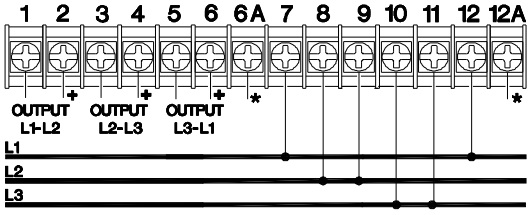
3 PHASE, 3 WIRE - A, C, CX5 OPTIONS



3 PHASE, 4 WIRE - A, C & CX5 OPTIONS

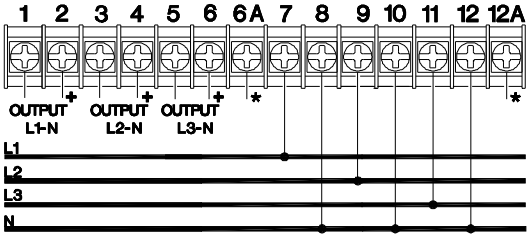


3 PHASE, 3 WIRE - E OPTION



*AC Instrument Power on Terminals 6A and 12A
Terminals 1, 3 & 5 are Internally Common

3 PHASE, 4 WIRE - E OPTION



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