HREE-PHASE AC VOLTAGE TRANSDUCER MODEL 3AVT-

DESCRIPTION

The 3AVT model transducers are designed for applications where UL, CUL, or CE listing is required. The 3AVT provides isolated outputs which are proportional to the applied voltage. Transducer output is derived from the average absolute value of the input and calibrated as the RMS value of a sine wave input. The 3AVT takes three voltage inputs and provides three separate isolated outputs.

MODEL SELECTION

INDUT	STANDARD OUTPUTS MODEL 3AVT-				
AC VOLTS	UL, CUL & CE				UL & CUL
	0-1mAdc*	4-20mAdc**	0-10Vdc*	0-5Vdc*	4-20mAdc
0 - 90	090A	090E2	090C	090CX5	090E
0 - 150	150A	150E2	150C	150CX5	150E
0 - 300	300A	300E2	300C	300CX5	300E
0 - 600	600A	600E2	600C	600CX5	600E







Measuring Equipment 7N93

** "E2" models are 4-20mA loop-powered, and require 15-24Vdc instrument power. Standard "E" models require 115Vac instrument power.

For optional 230Vac instrument power - add suffix "- 22".

For an output that represents an average of the three inputs add suffix "Y05" 400Hz models are available - consult factory (not UL, CUL listed)

ORDERING INFORMATION

Example: Three 120Vac Inputs, with three 4-20mA Outputs 3AVT-150E



SPECIFICATIONS

INPUT		
Frequency Ra	inge	50/60Hz
Burden	90V & 150V models	1VA
	300V models	2VA
	600V models	3VA
Overload	90V, 150V & 300V models	F.S. rating
	600V models	575V

DIELECTRIC TEST

Input/Output/Case......2200Vac

OUTPUT

"A" models(0-1mAdc) $0-10\text{k}\Omega$ "E" models0-1kΩ "E2" models (4-20mAdc @ 24Vdc)0-600Ω "C", "CX5" models(0-5, 0-10Vdc)≥10MΩ Field Adjustable Cal. ±5%

Response 400ms

INSTRUMENT POWER

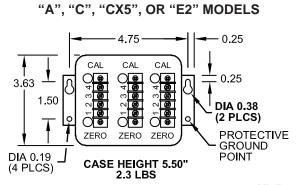
"A", "C" and "CX5" models Self-powered "E" models......115Vac, 50/60Hz, ±15%, 10VA

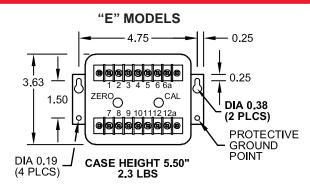
ACCURACY...... ±0.25% F.S. @60Hz Includes effects of linearity (10-100%) and setpoint. Output RippleLess than 1.0% F.S.

TEMPERATURE

Temperature Range-20°C to 60°C Temperature Effect.....±1.0% Rdg.

CASE DIMENSIONS





All dimensions in inches

Dwg# 0902-00880-B Rev --

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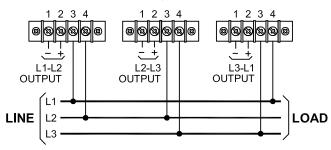
4242 REYNOLDS DRIVE * HILLIARD, OHIO * 43026-1264 PHONE: (614) 777-1005 * FAX: (614) 777-4511

WWW.OHIOSEMITRONICS.COM * 1-800-537-6732

^{* &}quot;A", "C", and "CX5" models are self-powered from measured line.

"A", "C" & "CX5" MODELS

THREE-PHASE, THREE-WIRE

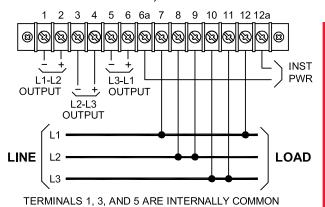


THREE-PHASE, FOUR-WIRE 1 2 3 4 1 2 3 4 1 2 3 4 98888 98888 98888 L2-N L1-N L3-N OUTPUT OUTPUT OUTPUT (L1 LINE LOAD

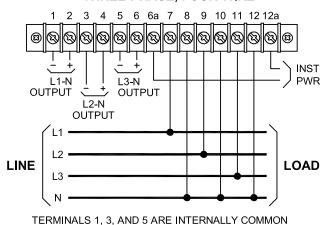
"E" MODELS

L3

THREE-PHASE, THREE-WIRE

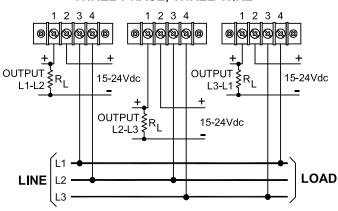


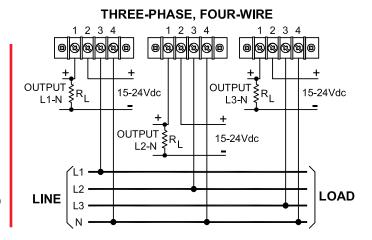
THREE-PHASE, FOUR-WIRE



"E2" MODELS

THREE-PHASE, THREE-WIRE





Dwg# 0902-00880-B Rev --

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OSI INSTALLATION & OPERATING INSTRUCTIONS MODEL 3AVT-

INSTALLATION INSTRUCTIONS

- 1. Installation should be performed by qualified electricians only!
- 2. Make sure electrical service is disconnected before making any electrical connections.
- 3. Branch circuit protection is required to be provided in accordance with the National and Local codes of the inspection authority.
- 4. Route wires as required and secure to terminals per connection diagram on this sheet and on the unit.
- 5. Attach the Protective Ground Point () to earth ground by mounting to a grounded enclosure or by attaching a ground wire. Paint barrier on can must be broken by using an internal-tooth lock-washer or similar device.

OPERATING INSTRUCTIONS

- 1. This unit is intended for indoor use at altitudes up to 2000 meters.
- 2. Transient overvoltages according to Installation Category (overvoltage category) II, pollution Degree 2.
- 3. The output signal is intended to be "Not accessible to the user." To prevent contact with live circuits, the transducer is required to be mounted in an enclosure that requires the use of a tool for access.
- 4. If cleaning of the exterior surface is necessary, de-energize all services of supply (both measuring and instrument power circuits) and brush with a soft brush or blow off with low-pressure air. Use appropriate eye protection. Not suitable for hose-down cleaning.
- 5. Maximum relative humidity 80 percent for temperatures up to 31°C decreasing linearly to 50 percent relative humidity at 40°C.
- 6. Maximum operating temperature range is -20°C to 60°C.

WARRANTY STATEMENT

Ohio Semitronics Inc. warrants this unit to be free of defects in material and workmanship for a period of five years from date of shipment. This unit must not be used in any manner other than as specified in this document.

3AVT Rev E.indd Page 3 of 3 12/1/15