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.

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



Standard "E" models require 115Vac instrument power. For optional 230Vac instrument power - add suffix "- 22".







Equipment 7N93

ORDERING INFORMATION

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

SPECIFICATIONS

N	P	U	T

Frequency Range50/60Hz Burden .90V & 150V models......1VA 300V models 2VA 600Vac models......3VA Overload F.S. rating 600Vac models 575V

DIELECTRIC TEST

Input/Output/Case	2200Vac
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INSTRUMENT POWER

"A" ,"C" and "CX5" models	Self-powered
"E2" models	15-24Vdc
"E" models	. 115Vac, 50/60Hz, ±15%, 10VA
"-22" Option	. 230Vac, 50/60Hz, ±15%, 10VA

OUTPUT

Response		400ms
Loading		
"A" models	. (0-1mAdc)	0-10kΩ
"E" models	. (4-20mAdc)	0-1kΩ
"E2" models	. (4-20mAdc)	(@24Vdc)0-600Ω
"C", "CX5" models	(0-5, 0-10Vdc)	≤10MΩ
Field Adjustable Cal	,	+5%

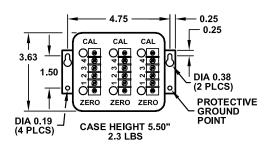
ACCURACY	. ±0.25% F.S. @60Hz
Includes effects of linearity (1	0-100%) and setpoint.
Output Ripple	Less than 1.0% F.S.

TEMPERATURE & PHYSICAL

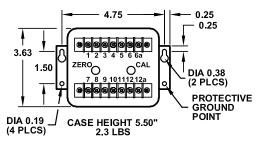
Temperature	Effect	±1.0%	Rdg.
Temperature	Range	20°C to	60°C

CASE DIMENSIONS

"A", "C", "CX5", OR "E2" MODELS



"E" MODELS



All dimensions in inches

OHIO SEMITRONICS, IN

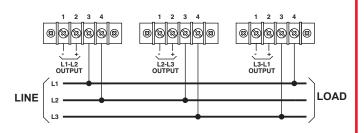
4242 REYNOLDS DRIVE * HILLIARD, OHIO * 43026-1264 PHONE: (614) 777-1005 * FAX: (614) 777-4511

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

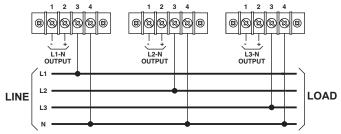
^{* &}quot;A", "C", and "CX5" models are self-powered from measured line. ** "E2" models are 4-20mA loop-powered, and require 15-24Vdc instrument power.

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

THREE-PHASE, THREE-WIRE

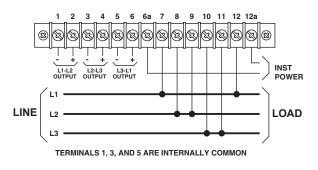


THREE-PHASE, FOUR-WIRE

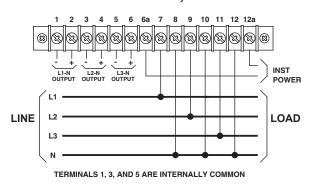


"E" MODELS

THREE-PHASE, THREE-WIRE

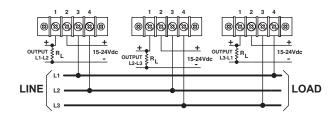


THREE-PHASE, FOUR-WIRE

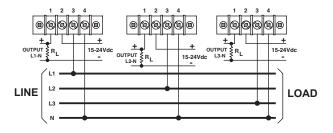


"E2" MODELS

THREE-PHASE, THREE-WIRE



THREE-PHASE, FOUR-WIRE



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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 eve 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.