



UL 3 in 1 AC VOLTAGE TRANSDUCER

MODEL 3AVT

DESCRIPTION

The 3AVT is designed for applications where UL, CUL or CE listed equipment for measuring multiple voltages in three phase or single phase system is required. The 3AVT takes three voltage inputs and provides three separate isolated outputs. The output is the absolute average of the value of the voltage input calibrated in terms of the RMS value of the input. The 3AVT is available for voltage ranges from 90Vac up to 575Vac with outputs of 1mA, 4 - 20mA as well as 5Vdc and 10Vdc.



FEATURES

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



APPLICATIONS

- Designed for use in three phase applications which require UL, CUL or CE listing.
- Perfect for motor monitoring or power distribution monitoring.

INPUT	STANDARD OUTPUTS MODEL 3AVT-				
	UL, CUL & CE				UL & CUL
AC VOLTS	0 - 1mA*	4-20mA**	0 - 10Vdc*	0 - 5Vdc*	4-20mA
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

ORDERING INFORMATION

Example: Three 120Vac inputs
with three 0 - 1mA outputs.
3AVT - 150A

* Models are self-powered from measured line.

** 4 - 20 mA loop-powered, E2 models, require 15 - 24Vdc.
4 - 20mA, E models require 115Vac instrument power.
Optional 230Vac 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 3AVT SPECIFICATIONS

INPUT

FREQUENCY RANGE: 50/60 Hz.

BURDEN: 90V & 150V Models: 1VA
300V Models: 2VA
600V Models: 3VA

OVERLOAD: Full-scale rating
600V models: 575V

DIELECTRIC TEST (4 - 20mA, 'E' models): 2200Vac

INSTRUMENT POWER:

115Vac, 50/60 Hz, ±15%, 10VA

-22 option: 230Vac, 50/60Hz, ±15%, 10VA

OUTPUT

ACCURACY: ±0.25% F.S. @ 60Hz

Includes effects of linearity (10% - 100%) and setpoint.

OUTPUT RIPPLE: Less than 1.0% F.S.

RESPONSE: 400 milliseconds

OUTPUT LOADING (ohms):

A: 0 - 10K; E: 0 - 1K

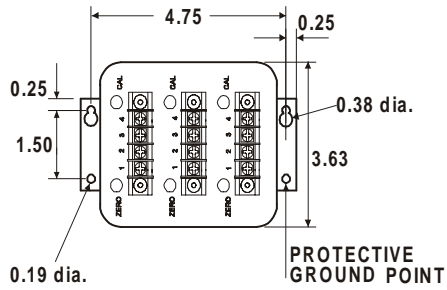
C & CX5: ³10M; E2: 0 - 600

FIELD ADJUSTABLE CAL.: ±5%

TEMPERATURE EFFECT: ±1.0% RDG

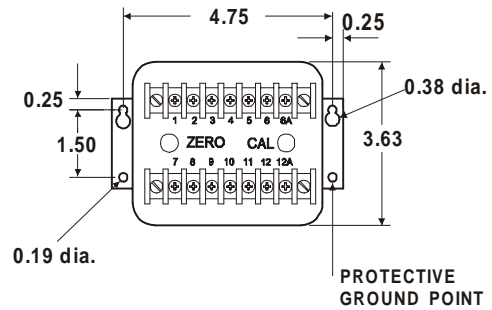
TEMPERATURE RANGE: -20°C - +60°C

MODELS WITH A, C, CX5 OR E2 OPTION



DIMENSIONS IN INCHES
CASE HEIGHT - 5.50, WEIGHT - 2.3 LBS.

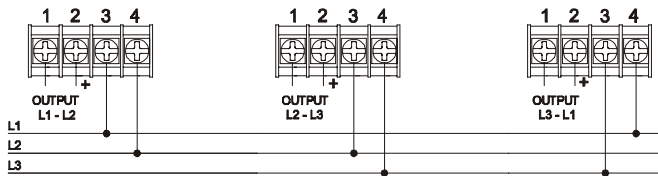
MODELS WITH E OPTION



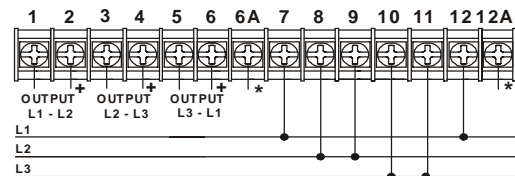
DIMENSIONS IN INCHES
CASE HEIGHT - 5.50, WEIGHT - 2.3 LBS.

CONNECTION DIAGRAMS

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

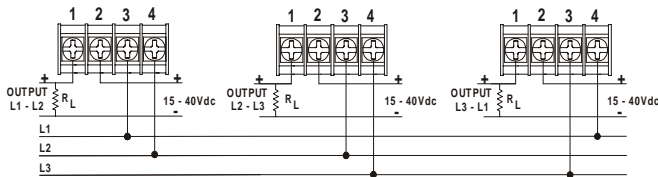


3 PHASE, 3 WIRE - E OPTION

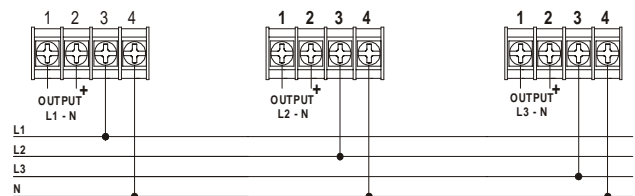


*AC Instrument Power on Terminals 6A and 12A
Terminals 1, 3 & 5 are Internally Common

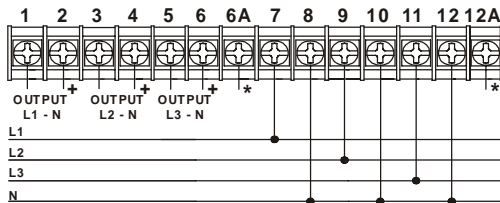
3 PHASE, 3 WIRE - E2 OPTION



3 PHASE, 4 WIRE - A, C, CX5 OPTION



3 PHASE, 4 WIRE - E OPTION



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

3 PHASE, 4 WIRE - E2 OPTION

