

VOLTAGE TRANSDUCERS

AC VOLTAGE TRANSDUCER

MODEL 3AVT

THREE VOLTAGE TRANSDUCERS IN ONE ENCLOSURE

FEATURES

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

APPLICATIONS

- Designed for use in three phase applications which require inexpensive voltage measurement.
- 3AVT150 can be used with higher voltage potential transformers
- Line voltage monitoring.

INPUT	OPTIONAL OUTPUTS MODEL NUMBER 3AVT-				
AC VOLTAGE	0-1mA*	4-20mA	4-20mA**	0-10Vdc*	0-5Vdc*
0 to 90	090A	090E	090E2	090C	090CX5
0 to 150	150A	150E	150E2	150C	150CX5
0 to 300	300A	300E	300E2	300C	300CX5
0 to 600	600A	600E	600E2	600C	600CX5



File E167120



*Models are self-powered from measured voltage line.

**4-20mA loop-powered, E2 models require 15-40Vdc.

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 as the RMS value of the sine wave input.

Weight: 2.3 Lbs.

ORDERING INFORMATION

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

MODEL 3AVT SPECIFICATIONS

INPUT

Voltage See tables

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...(Input/Output/Case) 2200VAC

Instrument Power

4-20mA units 115Vac, 50/60Hz, ±15%, 10VA

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

OUTPUT

Output Ripple Less than 1.0% F.S.

Response 400 milliSeconds

Output Loading (OHMS)

1mA 0-10K

4-20mA 0-1K

5V & 10V ≥ 10M

Field Adjustable Cal. +/- 5%

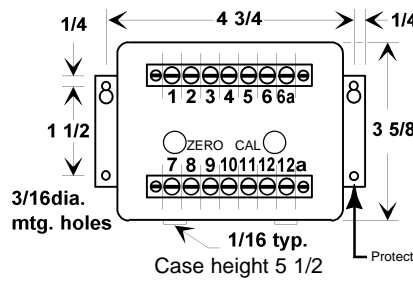
ACCURACY +/- 0.25% F.S. (60Hz.)

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

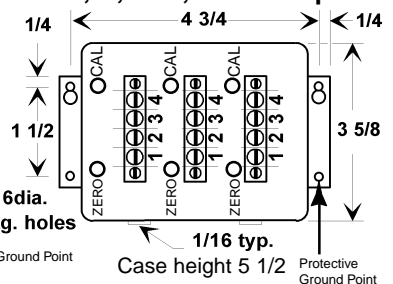
Temperature Effect...(-20°C to 60°C) +/- 1.0% RDG.

CASE DIMENSIONS

MODEL 3AVT WITH E OUTPUT



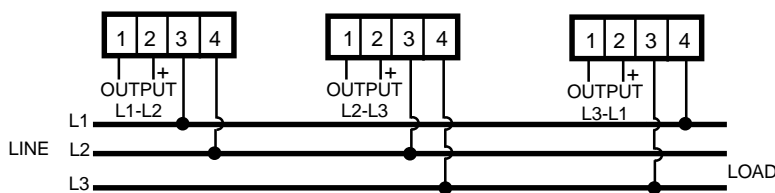
Model 3AVT With A, C, CX5, or E2 Output



ALL DIMENSIONS IN INCHES

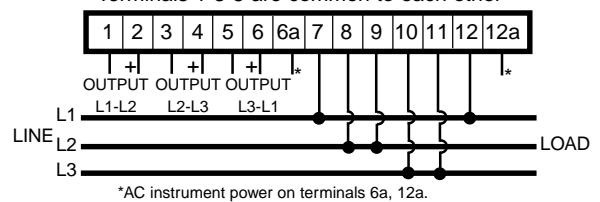
CONNECTION DIAGRAMS

3 PHASE 3 WIRE OPTION A, C, CX5 OR E2



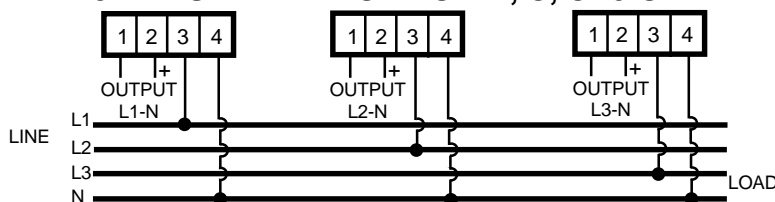
3 PHASE 3 WIRE OPTION "E"

Terminals 1-3-5 are common to each other



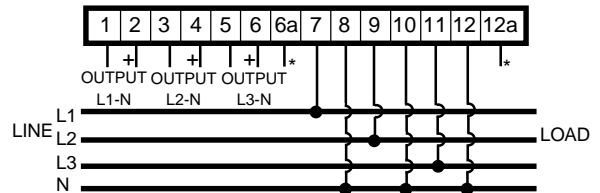
*AC instrument power on terminals 6a, 12a.

3 PHASE 4 WIRE OPTION A, C, CX5 OR E2



3 PHASE 4 WIRE OPTION "E"

Terminals 1-3-5 are common to each other



*AC instrument power on terminals 6a, 12a.

FLEX-CORE®

Div. Morlan & Associates, Inc.

6625 McVey Blvd. Columbus, Ohio 43235

WWW.FLEX-CORE.COM

flexcore@msn.com

PHONE (614) 889-6152

TECH. ASSISTANCE (614) 876-8308

FAX # (614) 876-8538