

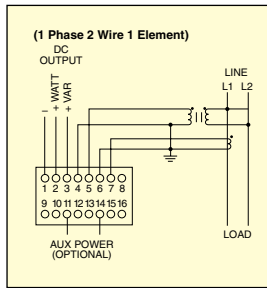
SIGNAL CONDITIONERS

Combined Watt/VAR Transducers (Volt Amp Reactance)

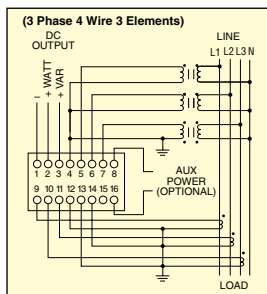
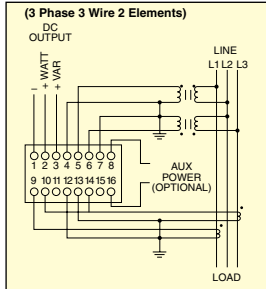
OM11 Series

- ✓ 0.2% Accuracy
- ✓ Both Watt and VAR Output
- ✓ Provides Isolation

The OMEGA® OM11 transducers accept ac voltage and current to produce a two conditioned dc process signal outputs representing wattage and Volt Amp Reactance (VAR). Single, dual, and three element models are available to accommodate a variety of wiring configurations. For larger input voltages and currents, the OM11 transducers may also be used with OMEGAs voltage and current transformers.



Line art shows optional voltage and current transformers.



Specifications

Accuracy: 0.2% of reading
Sustained Input Overrange: Voltage, 120% continuous, 150% for 5 seconds; current, 200% continuous, 1000% for 5 sec

Outputs: 0 to 1 mA dc,
 0±1 mA DC: into 10 kΩ
 10 Vdc compliance;
 4 to 20 mA DC, 12±8 mA
 DC into 750Ω max
 15 Vdc compliance

Zero Adjust: ± 5% min
Span Adjust: ±10% min

Response Time:
 >400 msec; 0 to 99%
 of full scale

Power Consumption:
 5 VA max

Isolation: Input to output:
 2500 Vac, 60 Hz, 1 min;
 input to power: 2500 Vac,
 60 Hz, 1 min; input to case:
 2500 Vac, 60 Hz, 1 min;
 power to output: 2000 Vac,
 60 Hz, 1 min; power to case:
 2000 Vac, 60 Hz, 1 min; output
 to case: 500 Vac, 60 Hz, 1 min

Dimensions:
 12 H x 11.2 W x 9.6 cm D
 (4.717 x 5.236 x 3.769")



OM11-43540AFB0,
 shown smaller
 than actual size.

To Order

Model No.	Input	Input Frequency**	Output Watt	Output VAR	Power Required
AC Watt/VAR (1 Element)					
OM11-41540AFB0-(*)	120 Vac/5A	60 Hz	0±1 mA	0±1 mA	Self powered
OM11-41580AFB0-(*)	240 Vac/5A	60 Hz	0±1 mA	0±1 mA	Self powered
OM11-41540AHD1-(*)	120 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	120 Vac
OM11-41580AHD1-(*)	240 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	120 Vac
OM11-41540AHD2-(*)	120 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	240 Vac
OM11-41580AHD2-(*)	240 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	240 Vac
AC Watt/VAR (2 Elements) For Delta Configuration Or "Y" Configuration With No Neutral					
OM11-43540AFB0-(*)	120 Vac/5A	60 Hz	0±1 mA	0±1 mA	Self powered
OM11-43580AFB0-(*)	240 Vac/5A	60 Hz	0±1 mA	0±1 mA	Self powered
OM11-43540AHD1-(*)	120 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	120 Vac
OM11-43580AHD1-(*)	240 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	120 Vac
OM11-43540AHD2-(*)	120 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	240 Vac
OM11-43580AHD2-(*)	240 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	240 Vac
AC Watt/VAR (3 Elements) For 4-Wire "Y" Configuration					
OM11-45540AFB0-(*)	120 Vac/5A	60 Hz	0±1 mA	0±1 mA	Self powered
OM11-45580AFB0-(*)	240 Vac/5A	60 Hz	0±1 mA	0±1 mA	Self powered
OM11-45540AHD1-(*)	120 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	120 Vac
OM11-45580AHD1-(*)	240 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	120 Vac
OM11-45540AHD2-(*)	120 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	240 Vac
OM11-45580AHD2-(*)	240 Vac/5A	60 Hz	4 to 20 mA	12±8 mA	240 Vac

* Specify "-M" for full scale = lag VAR input/output relationship, or "-P" for full scale = lead VAR input/output relationship.

** Consult engineering for 50 Hz and 400 Hz models.

Ordering Example: OM11-41540AFB0, 120 Vac/5 A, 60 Hz transducer.