

PHASE **SENSOR**

1400

DESCRIPTION:

P-Type For Static Load

With the line voltages and frequency within operating limits, P-Type units will energize only when input phases are in sequence A - B - C. They will de-energize only when power is removed. The P-Type unit is best suited to applications where static loads are used and where regenerated voltage will not be present if a phase opens.

Q-Type For Motor Loads

Q-Type units perform the same function as the P-Type since they will energize only when input phases are in sequence A -B - C. In addition, the unit will de-energize when any phase is disconnected or grounded provided the voltage input to the unit is below 50% of the nominal phase-to-phase voltage input. Q-Type units are suitable for motor loads where a regenerated voltage is produced.

No Neutral Connection

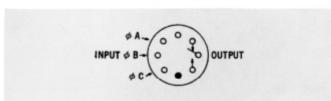
Neither P- or Q-Type units require connection to neutral leg.

For high-current applications, phase sensors are used with slave relays having heavy duty contact ratings.

All units are hermetically sealed and designed to meet the environmentals requirements of airborne and MIL-R-83726.



WIRING DIAGRAM



ELECTRICAL SPECIFICATIONS

Input Data:

Voltage: 115 or 208 VAC Frequency: 60 or 400 Hz

Operate Time: 75 milliseconds maximum Release Time: 100 milliseconds maximum

Contacts: 1PDT

Contact Rating: 2 amperes resistive at 30 volts DC, 0.5 ampere inductive at 30 volts DC. 0.25 ampere resistive or

inductive at 115 volts, 60 or 400 Hz.

TYPICAL APPLICATIONS CONNECTIONS

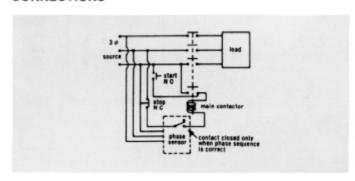
APPLICATIONS:

Motor Protection

Brown-out Protection

 Power Supply Sequencing Air Conditioner Protection

· Ground Support Equip. Protection



ENVIRONMENTAL SPECIFICATIONS:

Temperature Range: -55°C to +85°C

Vibration: 20 G's, 10 to 2000 Hz.

Shock: 50 G's, 11 ±1 millisecond duration.

Insulation Resistance: 1000 megohms, minimum at 500

volts DC, all terminals to case.

Dielectric Strength: 1000 volts RMS, 60 Hz, at sea level, all

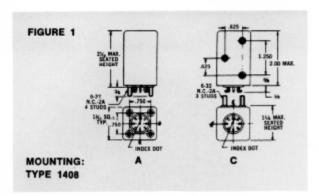
terminals to case

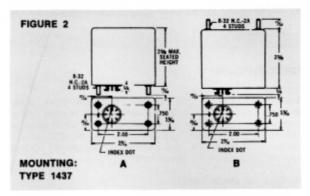
Life: 100,000 operations min.

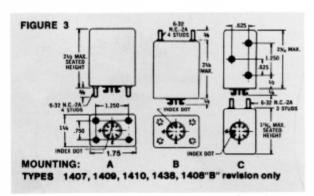
OPTIONS:

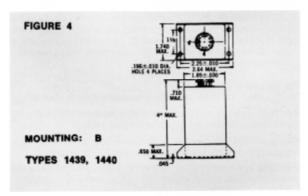
- · Frequency 50 Hz
- . Contact Rating to 10 A
- Higher Voltages
- Different Packages, Header & Mounting

MECHANICAL SPECIFICATIONS









HOW TO ORDER:

Basic Model No.	Load Type	Line to Line Voltage ±10%	Frequency ±10%	Max. Power Required	Mounting Style Fig.
1407	Р	115V	60 Hz	4 W	3
1408	P	115V	400 Hz	4 W	1 or 3
1409	P	208V	60 Hz	6 W	3
1410	P	208V	400 Hz	6 W	3
1437	a	115V	60 Hz	6 W	2
1438	Q	115V	400 Hz	6 W	3
1439	Q	208V	60 Hz	9 W	4
1440	Q	208V	400 Hz	9 W	4

