

Installation Instructions for SINPAC Switches

UL Recognition

Most SINPAC Switches are recognized under the component program of Underwriters Laboratories E-71115. In addition, all switches have an internal surge protection which meets UL-244A Specification and CSR Certification LR-6254, and are tested to the requirement of IEEE C62.41-1991, Category A3.

Construction

SINPAC Switches are potted and completely sealed making them impervious to dust, dirt and moisture. It can be **immersed in electric grade oil** as used in submersible pumps. The unique speed sensing circuit provides a universal design which allows a few switches to work in most standard single-phase motor applications regardless of nature.

Operation

The Stearns SINPAC Switch samples the voltage across the motor start winding (terminals 1 and 4) then it is fed into a comparator. The SINPAC Switch interrupts the start capacitor current (between terminals 2 and 3) after the motor has accelerated to a speed in which the cut out voltage has been reached, generally 75% to 80% of synchronous motor speed. A triac or inverse parallel SCRs provides the function referred to as cut out. Once the start circuit is cut out the main winding accelerates the motor rotor up to its running speed. When an overload drops the motor speed to approximately 50% of synchronous speed the switch automatically reconnects the motor start circuit. The SINPAC Switch constantly monitors the start or auxiliary winding for cut in voltage and will reconnect the start circuit once cut in voltage is reached.

Selection Procedure

CAUTION: SINPAC Switches are line voltage compensated. Changes in the line voltage within $\pm 10\%$ of nominal 115 or 230 Vac will not affect system operation. Operation of the motor at line voltages less than -10% of nominal can result in reduced motor running speeds and failure of the SINPAC Switch to disconnect the start circuit.

1. Be sure switch series matches motor type.
2. Be sure switch voltage rating matches the motor start circuit voltage.

3. Selection should be based on actual measurement of start circuit current.
4. SINPAC Switch current rating must **meet or exceed** the motor start circuit current requirement. Always select a SINPAC Switch with the next higher current rating for:
 - a) High cycling applications: Stop and start rates greater than 4 times/minute.
 - b) Long acceleration times: Greater than 2 seconds.
 - c) High ambients: Ambients greater than 55°C.

Note: Higher rated current switches can be used in place of lower rated switches within the same series.

5. The motor must generate a voltage across the start or auxiliary winding that is 20% greater than the SINPAC Switch cut out/cut in voltage rating.

Capacitor Start and Capacitor Start/Capacitor Run Motors

To determine the most appropriate SINPAC Switch cut out voltage rating for the particular motor application, the voltage across the motor start or auxiliary winding must be measured. This may be accomplished in the following manner:

1. Prepare the motor wiring for connection of the SINPAC Switch as shown in the Wiring Diagrams for SINPAC Switches section of this publication. Secure the motor to a firm mounting surface.
2. Connect the lead wire that is to be connected to SINPAC Switch terminal #2 securely to the lead wire that is to be connected to SINPAC Switch terminal #3.
3. Connect an AC voltmeter across the lead wires that are to be connected to SINPAC Switch terminals #1 & #4.
4. Apply power to the motor. Observe and record the voltage across the motor start or auxiliary winding, as indicated by the AC voltmeter, with the motor operating near synchronous speed.

CAUTION: Measurement of the start or auxiliary winding voltage must be done quickly to prevent damage to the start capacitor, motor winding or SINPAC Switch!

5. Multiply the measured voltage by 0.8 (80%). Select a SINPAC Switch having a cut out voltage rating equal to or less than this number.

Capacitor Start and Capacitor Start/Capacitor Run Motors

Measured Voltage	Voltage Across SINPAC Switch Terminals 1 & 2	Cut Out Voltage Rating
226V	115V	180V
200V-225V	115V	165V
176-200V	115V	147V
150-175V	115V	130V
<150V	115V	-
>492V	230V	410V
370-492V	230V	310V
300-369V	230V	260V
<300V	230V	-

*Consult factory

Split Phase Motors

To determine the most appropriate SINPAC Switch cut in voltage rating for the particular motor application, the voltage across the motor start winding must be measured. This may be accomplished in the following manner:

1. Prepare the motor wiring for connection of the SINPAC Switch as shown in the Wiring Diagrams for SINPAC Switches section of this publication. Secure the motor to a firm mounting surface.
2. Insulate the lead wire that is to be connected to SINPAC Switch terminal #2.
3. Connect an AC voltmeter across the lead wires that are to be connected to SINPAC Switch terminals #1 & #3.
4. Apply power to the motor. Carefully rotate the motor shaft to initiate rotation. Observe and record the voltage across the motor start winding, as indicated by the AC voltmeter, with the motor operating near synchronous speed.
5. Multiply the measured voltage by 0.8 (80%). Select a SINPAC Switch having cut in voltage rating closest to this number.

Measured Voltage	Voltage Across SINPAC Switch Terminals 1 & 2	Cut In Voltage Rating
>40V	115V	30V
15-40V	115V	10V
<15V	115V	-
>70V	230V	60V
<70V	230V	-

*Consult factory

Sinpac Switch Manual

**Hobart Manufacturing Company.
(Blythewood, S.C.), South Carolina
Committee for Technical Education**

Sinpac Switch Manual:

Diesel Progress Engines & Drives ,1989 *Thomas Register of American Manufacturers* ,2003 Vols for 1970 71 includes manufacturers catalogs *Sweet's Catalog File* ,1992 **Design News** ,1987 *Thomas Register* ,2004

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