

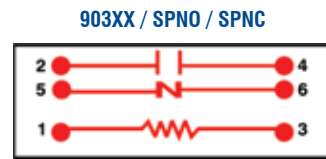
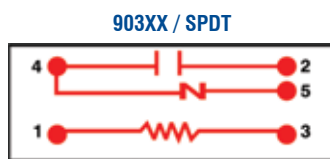
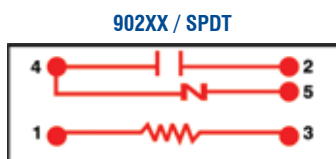
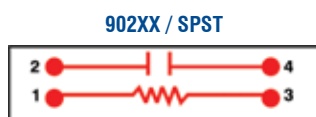
902XX & 903XX Series General Purpose Fan Relays



Engineering Data

- CONTACTS:** SPST-NO, SPST-NC, SPDT, 1 NO/1 NC, Material/ Power - Silver Alloy, Material 1/2 Pilot - Fine Silver
- POWER RATINGS (All Forms):** 125 VAC, 18A Resistive, 12 FLA, 60 LRA, 240/277 VAC, 18A Resistive, 8 FLA, 48 LRA
- SPECIAL POWER RATINGS (Form 1 & 2):** 125 VAC, 14 FLA, 84 LRA, 277 VAC, 25A Resistive
- PILOT RATINGS (All Forms):** 3A, 277 VAC Gen. Purpose, 250 VA @ 250 VAC, 277 VA @ 277 VAC, 125 VA @ 125 VAC
- COILS :** Voltage Ratings - 24, 120, 208/240, 77 VAC, 12, 24 VAC Frequency - 50/60 Hz Pick-up Voltage - AC 85% of nominal, DC 75% of nominal, Power Ratings -AC DC, Inrush 5 VA 3VA, Sealed 3 VA 3 VA

Wiring Diagrams



PART NO.	DESCRIPTION	AMPS	COIL VOLTAGE
90290	SPST	4	24V
90291	SPST	4	120V
90292	SPST	4	240V
90293	SPDT	1	24V
90294	SPDT	1	120V
90295	SPDT	1	240V
90370	SPDT	12	24V
90372	SPDT	12	120V
90374	SPDT	12	240V
90380	NO/NC	13	24V
90382	NO/NC	13	120V
90384	NO/NC	13	240V



Short Cycle Protector, Time Delay Relay and Contactor Combination

- Choose Delay on Break or Delay on Make model
- Ideal for split systems not supplied with contactor or time delay relay
- Prevents short cycling
- Contactor takes compressor load off the thermostat circuit

Features/Benefits

- Adjustable Delay
- Relay coil same voltage as load
- 1/4" male quick connect terminals
- Encapsulated circuitry
- Input Voltage: 208 - 230 VAC

PART NO.	DELAY TYPE	DELAY RANGE
TDP269	Delay on Make (DOM)	6 sec. to 300 sec.



Compressor Protection Package Combination

Combines Hard Start Kit with maximum compressor protection.

Features/Benefits

- Can be installed in pilot circuits for 24 to 288 VAC
- Adjustable time delay from 6 seconds to 5 minutes
- Operates with or without cooling thermostat anticipator
- Only two terminal connection on Time Delay
- Can be mounted as an assembly or snapped apart for separate mounting
- Two models available to suit specific requirements

Applications

- Residential and commercial PSC A/C units and heat pumps
- For all PSC A/C units from 1 hp to 10 hp
- Can be used on 115 thru 288 VAC units
- For severe low voltage or hard starting compressors

PART NO.	INCREASED TORQUE	TIME DELAY RANGE
SPP5TD	270 ounce inches (300%)	6 sec. to 5 minutes
SPP6TD	390 ounce inches (500%)	6 sec. to 5 minutes

Capacitors

Facts About Capacitors

- Capacitors are rated by microfarads (uF) and voltage. The rated capacitor should not be changed since the motor operates at maximum efficiency when using a specified capacitor size. However a plus or minus 10 % rule of thumb applies to the microfarad rating when changing out a capacitor. If necessary, the replacement capacitor voltage rating can be higher than specified, but not lower without effecting the capacitor life.
- Always replace the run capacitor when installing a new motor. If a defective capacitor is in the circuit the motor will probably not run. If it does run, it will operate as if it is overloaded. The motor speed will be low; it will overheat and probably activate the motor overload protector causing short cycling.
- Capacitors can hold a charge for long periods of time. To prevent shock the capacitor should be discharged before it is removed. The proper procedure to do this is to use a 5000 to 20000 Ohm bleed resistor.
- To check capacitors, use a SUPCO Capacitor Tester p/n MFD10.