

AC Hard Starts



See Page 123-124
for E Class Advantage
Tech Notes

SPPE 'E Class' Series EPR/Capacitor Combination

Features/Benefits

- Electronic Potential Relay Technology (EPR)
- Backup electronic timing circuit to protect the compressor
- Voltage sensing
- Instant Re-start
- Easy 2-wire installation
- Can be used on PSC and CSIR type compressors
- 330 V Capacitor



PART NO.	OPERATING VOLTAGE (VAC)	RECOMMENDED RANGE (hp)	CAPACITOR SIZE (μF)
SPP4E	90 – 130	1/8 – 1	88 – 106
SPP5E	170 – 277	1/3 – 2	43 – 52
SPP6E	170 – 277	1/2 – 3	88 – 106
SPP7E	170 – 277	1 – 4	130 – 156
SPP8E	170 – 277	1 and up	189 – 227
SPP9E	170 – 277	1 and up	233 – 280
SPP10E	170 – 277	3 and up	270 – 324



SPP Series PTC/Capacitor Combination

Features/Benefits

- Positive Temperature Coefficient Technology (PTC)
- Field proven reliability
- Easy 2-Wire installation
- Most economic



PART NO.	VOLTAGE (VAC)	RECOMMENDED RANGE (hp)	INCREASE IN TORQUE (%)
SPP*	90 – 277	1/2 to 10	250%
SPP5	90 – 277	1/2 to 10	300%
SPP6	90 – 277	1/2 to 10	500%
SPP7S	90 – 277	1/2 to 10	600%

* This model does not include a capacitor



SK3W Series 3-Wire Potential Relay/Capacitor Combination

Features/Benefits

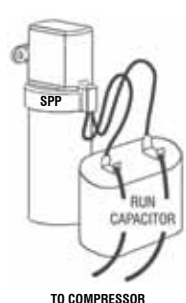
- OEM-Style 3-wire Installation
- Instant re-start
- Easy installation with "fast clamp-on" connection
- Models for standard and scroll compressors
- 330 VAC Start Capacitor Voltage



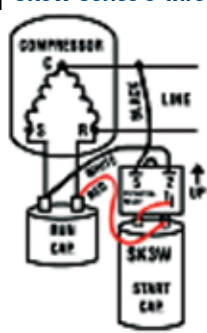
PART NO.	hp RATINGS	COMPRESSOR	DROP-OUT VOLTAGE (VAC)	PICK-UP VOLTAGE (VAC)	MAXIMUM COIL VOLTAGE	CAPACITOR SIZE (μF)
SK3W2	1 thru. 2 hp	Standard	60-135	204-233	500 VAC	88 - 108
SK3W3	2 1/2 thru. 3 1/2 hp	Standard	60-121	171-184	420 VAC	189 - 227
SK3W5	4 thru. 5 hp	Standard	60-121	171-184	420 VAC	243 - 292
SK3W4S	3 thru. 4 hp	Scroll	60-135	204-233	500 VAC	189 - 227
SK3W6S	4 1/2 thru. 6 hp	Scroll	60-121	171-184	420 VAC	270 - 324

Application Note: 2-wire vs. 3-wire Installation

HT, SPP & SPPE Series 2-wire



SK3W Series 3-wire



"Fast Clamp-On" Connection (used with SK3W Series)

