

# Refrigeration Relays, Overloads & Hard Starts

## For Refrigeration Systems Without Run Capacitors

SUPCO offers the most complete line of refrigeration relays, overloads and hard starts in the industry. For refrigeration systems with and without run capacitors, just choose the right combination for your application. All combinations are pre-wired for fast installation.



### ICG and PO Series Relays

#### Features/Benefits

- ICG Series features a “snap-on” bracket
- PO Series installs on compressors with “pin-type” terminals.
- Fastest cool down time of any solid state relays
- Can be used with and without start capacitor.

#### Applications

- One size for all compressors from 1/12 hp through 1/2 hp.
- Replaces all current type relays.



### RO & PRO Series Relay and Overload Combinations

- RO Series features “snap-on” bracket
- PRO Series installs on “pin-type” terminal.
- Locked rotor protection eliminates start winding overheating
- Can be used with and without start capacitor motors from 1/4 to 1/3 hp.

#### Applications

- Select the right match to replace refrigerator compressor relay and overload units from 1/12 through 1/2 hp, 115 – 230 VAC.



### RSC Series Relay and Start Capacitor Combination

#### Features/ Benefits

- Replaces current-type relays
- Provides a boost for hard start and unbalanced systems
- Prevents low voltage starting problems

#### Applications

- One size for all compressors from 1/12 hp through 1/2 hp.
- For domestic and commercial refrigeration systems and freezers



### RCO Series 3 N' 1 Relay, Overload and Start Capacitor Combination

#### Features/Benefits

- Replaces relay, overload and provides a boost for hard start and unbalanced systems
- Prevents low voltage starting problems

### SS410 Super Start Relay Overload Combination

#### Features/Benefits

- Equipped with an electro-mechanical relay, locked rotor protector and a 255  $\mu$ F start capacitor.
- Increases torque to its maximum capacity

### Selection Table For Refrigeration Systems Without Run Capacitors

PART NO.	START			VOLTAGE		
	RELAY	OVERLOAD	CAPACITOR	MOUNTING	hp RATING	(VAC)
ICG1	*			Quick Connect	1/12 - 1/2	115
ICG-220	*			Quick Connect	1/12 - 1/2	230
PO115	*			Push - on	1/12 - 1/2	115
PO230	*			Push - on	1/12 - 1/2	230
RO81	*	*		Quick Connect	1/12 - 1/5	115
RO41	*	*		Quick Connect	1/4 - 1/3	115
RO82	*	*		Quick Connect	1/12 - 1/8	230
RO62	*	*		Quick Connect	1/6 - 1/5	230
RO42	*	*		Quick Connect	1/4 - 1/3	230
PRO81	*	*		Push - on	1/12 - 1/5	115
PRO41	*	*		Push - on	1/4 - 1/3	115
PRO21	*	*		Push - on	1/2	115
PRO82	*	*		Push - on	1/12 - 1/8	230
PRO62	*	*		Push - on	1/6 - 1/5	230
PRO42	*	*		Push - on	1/4 - 1/3	230
PRO22	*	*		Push - on	1/2 - 2/3	230
RSC20	*		*	Quick Connect	1/12 - 1/2	230
RC0810	*	*	*	Quick Connect	1/12 - 1/5	115
RC0410	*	*	*	Quick Connect	1/4 - 1/3	115
RC0210	*	*	*	Quick Connect	1/2	115
RC0820	*	*	*	Quick Connect	1/12 - 1/8	230
RC0620	*	*	*	Quick Connect	1/6 - 1/5	230
RC0420	*	*	*	Quick Connect	1/4 - 1/3	230
RC0220	*	*	*	Quick Connect	1/2	230
SS410	*	*	*	Quick Connect	1/4 - 1/3	115

### RCO/URCO/PRO/URPO/RO/URO Current Ratings

PART NO.	FULL LOAD	TRIP IN
	AMPS	CURRENT AFTER 6-16 SEC.
RC0810/URCO810/PRO81/URP081/RO81/URO81	4.05Amps	12 Amps
RC0410/URCO410/PRO41/URP041/RO41/URO41	7.5 Amps	22 Amps
RC0210/URCO210	13.3 Amps	40 Amps
RC0820/URCO820/PRO82/URP082/RO82/URO82	1.66 Amps	6 Amps
RC0420/URCO420/PRO42/URP042/RO42/URO42	4.05 Amps	12 Amps
RC0620/URCO620/PRO62/URP062/RO62/URO62	1.66 Amps	6 Amps
RC0220/PRO22/URP022/URO22	7.5 Amps	22 Amps

#### Applications

- Select the right match to replace refrigerator compressor relay and overload units from 1/12 through 1/2 hp, 115 – 230 VAC.
- For all capillary systems

#### Applications

- For all motors including high starting torque motors from 1/4 to 1/3 hp.

#### Features/Benefits