

START CAPACITORS - 250V AC

STOCK NO.	PRODUCT NUMBER	MFD	PRICE \$ excl. GST
C4065	92A025B250AC1X	25 - 30	31.20
C4064	92A030B250AC1X	30 - 36	31.40
C4066	92A036B250AC1X	36 - 43	31.70
C4081	92A040B250AC1X	40 - 48	32.10
C4082	92A047B250AD2A	47 - 56	35.00
C4080	92A060B250BD4X	60 - 72	38.10
C4079	92A080B250BD4X	80 - 96	50.20
C4071	92A088B250BD4X	88 - 108	50.70
C4083	92A108B250BD4X	108 - 130	52.50
C4063	92A124B250BD4X	120 - 144	54.80
C4067	92A161B250BD4X	161 - 193	64.50
C4069	92A200B250BD4X	200 - 240	73.10
C4090	92A233B250CD6A	233 - 280	96.60
C4092	92A270B250CE7A	270 - 324	102.40

START CAPACITORS - 330V AC

STOCK NO.	PRODUCT NUMBER	MFD	PRICE \$ excl. GST
C4066A	92A036B330AD2R	36 - 43	36.50
C4082A	92A047B330BD4X	47 - 56	48.00
C4080A	92A060B330BD4X	60 - 72	50.60
C4079A	92A080B330BD4X	80 - 96	68.20
C4071A	92A088B330BD4X	88 - 108	70.30
C4083A	92A108B330BD4X	108 - 130	75.40
C4063B	92A120B330CE7X	120 - 144	75.60
C4063A	92A130B330CE7X	130 - 156	81.50
C4067A	92A161B330DE8X	161 - 193	88.70

RUN CAPACITORS - 440V AC

STOCK NO.	PRODUCT NUMBER	MFD	PRICE \$ excl. GST
C4103	YT110020A000	1	11.50
C4072	YT115020A000	1.5	11.50
C4091	YU120010A000	2	11.50
C4105	YU125010A000	2.5	11.90
C4107	YU130010A000	3	12.50
C4073	YU140010A000	4	13.70
C4109	YU150010A000	5	14.20
C4093	YU160010A000	6	14.60
C4111	YU175010A000	7	16.40
C4095	YU180010A000	8	17.70
C4074	YU210010A000	10	18.80
C4115	YU211010A000	11	19.40
C4097	YU212010A000	12	22.80
C4117	YU212510A000	12.5	23.00
C4119	YL214020A000	14	27.20

Motor Start Capacitors

The purpose of a start capacitor is solely to provide the motor with a 'boost' to assist in starting under load.

The capacitor provides an out-of-phase starting current to the start winding, forcing the motor to operate as a two-phase motor for the starting duration.

After the motor has started, the start capacitor and start winding is disconnected from circuit via a voltage or current relay.



Start Cap

Capacitor Replacement & Selection

Replacement of a faulty capacitor should always be made using a capacitor of equivalent capacitance rating, and a voltage rating equal to or higher than the faulty part. The motor rating plate bears little significance to the voltage rating of the capacitor. An AC voltmeter should be used to monitor the voltage across the capacitor after replacement.

Reasons for Start Capacitor Failure

Conditions which increase failure rate and can reduce the life of a capacitor are:

- Short-cycling of the compressor
- High operating temperatures
- Application of voltages in excess of ratings
- Overloading, preventing running speed from being reached
- Physical damage to case or terminals
- Failure of starting switch
- Worn or frozen motor bearings
- Low line voltage
- Incorrect capacitance rating



Run Cap

If the start capacitor and start winding remains in-circuit for extended period, it will be permanently damaged. The motor should reach speed within 1 to 3 seconds.

STOCK NO.	PRODUCT NUMBER	MFD	PRICE \$ excl. GST
C4075	YU215010A000	15	24.30
C4123	YL218020A000	18	29.00
C4076	YU220010A000	20	29.10
C4085	YU225010A000	25	35.20
C4086	YU230010A000	30	37.70
C4077	YU235010A000	35	44.30
C4078	YU240010A000	40	47.20
C4087	YU245010A000	45	50.30
C4088	YU250010A000	50	61.00
C4127	YL255020A000	55	67.00
C4089	YU260010A000	60	67.80
C4098	YU265010A000	65	70.00
C4099	YU270010A000	70	72.40
C4129	YU275010A000	75	83.40
C4131	YU280010A000	80	85.50

SOLID STATE RELAYS, OVERLOAD COMBOS

STOCK NO.	PRODUCT NUMBER	DESCRIPTION	RANGE	PRICE \$ excl. GST
C4000	ICG 220	230V Solid State Relay - Wire	1/12 - 1/2HP	39.50
C4005	PR230	230V Solid State Relay - Push on	1/12 - 1/2HP	37.50
C4007	UMSR50	ICM Universal Motor Starting Relay *Replaces all standard Potential Relays	Up to 10HP	65.50
C4020	RO-82	230V Relay & Overload	1/12, 1/10, 1/8HP	54.50
C4015	RO-62	230V Relay & Overload	1/6, 1/5HP	54.50
C4010	RO-42	230V Relay & Overload	1/4, 1/3HP	54.50
C4025	RSC-20	230V Relay & Capacitor	43 - 52MFD	78.00
C4040	RCO-420	230V 3-in-1 Relay, O/load & Capacitor	1/4, 1/3HP	95.00
C4050	SPP-5	230V Starter Pow-R-Pak for Air Cond Increases Starting Torque Up To 300%	1/2 - 10HP	105.00

Supco



ICG Series



RO Series



UMSR50

SPP5 Starter Pow-R-Pak



Applications

- Room A/C units, Hard start Refrigeration
- Residential and commercial PSC A/C units and heat pumps
- For all PSC A/C units from 1.2kw thru 30kw
- Can be used on 120 thru 288 VAC units
- For low voltage and hard starting compressors

Features

- Installs in seconds across run capacitor terminals
- Contains relay and start capacitor for extra starting torque

RCO Series 3 N 1 Start Relay



The **3 n 1 Start Relay** adds new life to old refrigerators and freezers by providing an additional boost to the compressor.

Application

This All-In-One unit replaces ALL 3 electrical components - Relay, overload and start capacitor on compressors from 1/4 to 1/3HP

Features

- Completely prewired.
- Installs quickly and easily by simply pushing on 3 female pin terminals

RSC Series The Big Relay



Application

One size for all compressors from 1/12 H.P. thru 1/2 H.P. for both domestic and commercial refrigerators and freezers.

Features

- A combined solid state starting relay and capacitor
- Completely prewired for a fast, simple hookup
- Installs quickly and easily by just pushing the female pin terminals onto the compressor terminals
- Provides added boost for hard start and unbalanced systems
- Prevents low voltage starting problems
- No additional wires required

NHD CONTACTORS (240V Coil)

STOCK NO.	PRODUCT NUMBER	DESCRIPTION	AMPS		PRICE \$ excl. GST
			HEATER	MOTOR	
G6000	C-06D1017	NHD Compact Contactor – 1 N0 Aux	16	9	43.00
G6001	C-06D0117	NHD Compact Contactor – 1 NC Aux	16	9	43.00
G6005	SMC18-11IS	NHD Contactor - 1 N/O & 1 N/C Aux	32	15	65.00
G6008	SMC22-11IS	NHD Contactor – 1 N/O & 1 N/C Aux	40	22	84.00
G6010	SMC32-11IS	NHD Contactor – 2 N/O & 2 N/C Aux	50	32	120.00
G6013	SMC40-11IS	NHD Contactor – 2 N/O & 2 N/C Aux	60	42	132.00

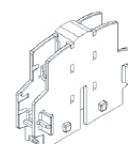
■ Above contactors come with 240V coil - 24V & 415V coil available as listed below.


THERMAL OVERLOADS (Suit SMC Series)

STOCK NO.	PRODUCT NUMBER	DESCRIPTION	AMP RANGE	PRICE \$ excl. GST
G6050	NTH-3	NHD Overload NTH-3	2.4 to 3	58.00
G6053	NTH-5	NHD Overload NTH-5	3.8 to 5	58.00
G6055	NTH-8	NHD Overload NTH-8	6 to 8	58.00
G6058	NTH-11	NHD Overload NTH-11	8 to 11	58.00
G6061	NTH-15	NHD Overload NTH-15	10 to 15	58.00
G6063	NTH-17	NHD Overload NTH-17	14 to 17	67.00
G6065	NTH-21	NHD Overload NTH-21	17 to 21	67.00
G6068	NTH-25	NHD Overload NTH-25	21 to 25	67.00
G6070	NTH-28	NHD Overload NTH-28	24 to 28	72.00
G6071	NTH-32	NHD Overload NTH-32	26 to 32	72.00


AUXILIARY CONTACTS

STOCK NO.	PRODUCT NUMBER	DESCRIPTION	AMPS	PRICE \$ excl. GST
G6100	CA1-D22	Top Mount Auxillary Contacts	10	24.00
G6103	CA8-D11	Side Auxillary Contacts	10	18.00


CONTACTOR COILS

STOCK NO.	PRODUCT NUMBER	DESCRIPTION	PRICE \$ excl. GST
G6020	-	240V Contactor Coil to suit SMC	19.00
G6021	CL509A7	24V Contactor Coil to suit SMC	24.00
G6019	CL509LS	415V Contactor Coil to suit SMC	19.00


MJB DELAY CUBE TIMERS


STOCK NO.	PRODUCT NUMBER	DESCRIPTION	PRICE \$ excl. GST
G0699	ODT240X480	6 sec to 8 min adjustable on delay solid state timer - 2 Pin	85.00
G0671	LTA240X480	6 sec to 8 min adjustable anticycle solid state timer - 2 Pin	85.00
G0670	LT240X180	3 minute fixed anticycle solid state timer - 2 Pin	85.00
G0672	LT240X300T	5 minute fixed anticycle solid state timer - 4 Pin	105.00
G0673	ROT240X600T	6 sec to 10 min adjustable run on solid state timer - 3 Pin	85.00

