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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

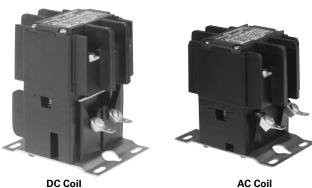
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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AC Coil

P30/P40 series

Definite Purpose Magnetic Contactor 30/40 Ampere Full Load 40/50 Ampere Resistive AC & DC Coils

File E22575 File LR15734

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Coil Data

	Nominal VDC	Resistance (Ohms ± 10% @ 25° C)	Must Operate* Volts	Maximum Operating Volts	Nominal Coil Current (ma) @ Nominal Voltage
ſ	12	20.8	9	15	577
	24	84	18	30	286
	48	334	36	57	144
l	120	2,110	90	144	57

AC Voltage	Nominal	Must Operate*				
Rating	50/60 Hz.	50/60 Hz.				
24	24	20.4				
120	110/120	94				
240	208/240	177				
277	277	236				

*Applicable for vertical mounting, but not for upside-down mounting.

Note: Coil suppression is recommended for all DC coil units, particulary 120 and 240VDC coils

Operate Data

Must-Operate Voltage: See coil data tables.

Environmental Data

Temperature Range: -55°C to +65°C.

Mechanical Data

Mounting: Universal mounting bracket. See outline drawings. Termination:

- **Contacts:** Binder screw, box lug, captive pressure plate, combination screw and dual .250" (6.35mm) quick connect, or combination box lug and dual .250" (6.35mm) quick
 - connect. See Main Contact Terminal Options photo.
- Coil: Combination 8-32 screw and .250" (6.35mm) quick connect. Aux. Switch: .187" (4.75mm) guick connect.
- Weight: 3 Pole Models: 25 oz. (709g) approximately.

4 Pole Models: 28 oz. (794g) approximately.

Features

- AC and DC coils.
- · Available with auxiliary switch. Variety of main contact terminals.
- · For control of motors, power supplies, heating elements and lighting.

Contact Data @ 25°C

Arrangements: Up to 4 Form X (4PST-NO-DM) Ratings: See contact rating table. Material: Silver-cadmium oxide. Expected Life: 200,000 operations at full load. AC coil: 2 million operations, mechanical.

DC coil: 10 million operations, mechanical.

Minimum Contact Data: 3A @ 120VAC.

Main Contact Ratings

	Motor R	ating in A	Resistive	Tungsten		
Туре	Full Load	L	ocked Roto	Rating	Rating	
	@ 600V	@ 240V	@480V	@ 600V	@ 600V	@277V
P30	30A	180A	150A	120A	40A	40A
P40	40A	240A	200A	160A	50A	50A

P30 Electrical Discharge Lamp Control: 40A @ 240V (Delta), 40A @ 600V (Wye). P40 Electrical Discharge Lamp Control: 50A @ 600V (Wye).

Туре	Motor Rating in Horsepower							
Type		@ 120V	@ 240V	@ 440-600V				
P30	1Ø2P	1.5HP	3HP	_				
	3Ø3P	3HP	7.5HP	7.5HP				
P40	1Ø2P	2HP	5HP	_				
	3Ø3P	5HP	10HP	15HP				

Auxiliary Snap-Action Switch

Arrangements: Up to 2 Form C (DPDT). Rating: 10 amps at 120-250VAC @ 25°C Material: Silver.

Initial Dielectric Strength

Initial Breakdown Voltage: 2,200V rms minimum between all elements and between all elements to ground.

Coil Data @ 25°C

Voltage: From 12 to 120VDC, and 24 to 277VAC, 50/60 Hz. Power: DC, 7.5 W; AC, 92VA, In rush; 12 VA Sealed. Duty Cycle: Continuous. Insulation Class: Class A, standard, Class B available. Initial Insulation Resistance: 100 megohms, minimum.

Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

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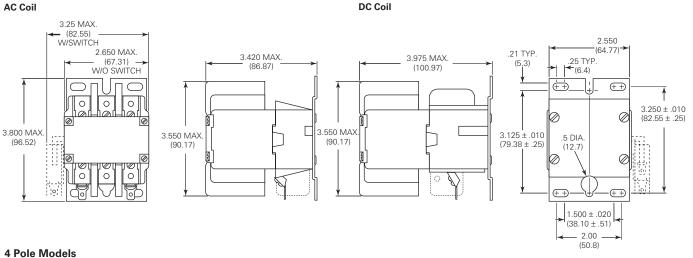
Electronics	lssu	ed 3-03 (Pl	DF Rev. 5-05)						P&
Ordering Information									
Typical Part No. 🕨	P30	P	42	Α	1	4	Р	1	-240
1. Type: P30 = Definite Purpose Contactor, 30 amp. P40 = Definite Purpose Contactor, 40 amp.									
2. Auxiliary Switch: P = No Aux. Switch C = 1 Form C (SPDT)F = 2 Form C (DPDT)		-							
3. Main Contact Arrangement: 42 = 3 Form X (3PST-NO-DM) 47 = 4 Form X 43 = 2 Form X (DPST-NO-DM) 48 = 2 Form X 45 = 1 Form X (SPST-NO-DB) 49 = 4 Form X 45 = 2 Form Y (DPST-NC-DB) 49 = 4 Form X	(DPST-NO-E Y (DPST-NC (4PST-NC-D	DM) -DB) B)	_						
4. Coil Control Input: A = Alternating Current, 50/60 Hz. D = Direct Cu	rrent			1					
5. Mounting and Installed Accessories:1 = Standard Mounting					_				
 6. Main Contact Terminals: 2 = Screw Terminals 3 = Screw Terminals & Dual .250" (6.35mm) Quick C 4 = Box Lug 			e Pressure F Ig & Dual .2		nm) Quick	Connect			
7. Auxiliary Contact Terminals: P = No Auxiliary Switch C = .187" (4.75mm) Quick Connect							-		
8. Coil Terminals: 1 = Combination 8-32* Screw Terminal and .250" (6.	35mm) Quicł	Connect						-	
9. Coil Voltage: 24, 120, 240 or 277VAC 12, 24 or 120VDC									

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

P30P42A12P1-120	P40P42A12P1-24
P30P42D12P1-24	P40P42A12P1-120
P30P47A12P1-120	P40P42A12P1-240
P30P47D12P1-24	P40P42D12P1-24

Outline Dimensions

3 Pole Models

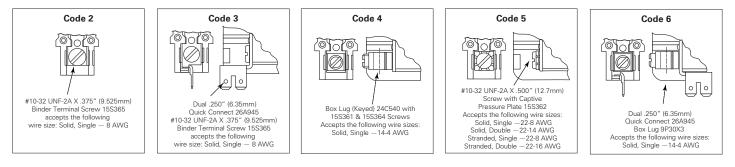




3.600 MAX (91.44) W/SWITCH 2.550 3.350 MAX. .21 TYP. (64 77)-3.975 MAX. 3 420 MAX (85.09) (5.3) .25 TYP (100.97)(86.87)W/O SWITCH (8.4)(++)(++)0 0 0 0 10 Ø 3.250 ± .010 3.550 MAX.🕅 (90.17) $(82.55 \pm .25)$ Г $3.125 \pm .010$ 3.550 MAX .5 DIA (79.38 ± .25) (90.17)(12.7) 3.800 MAX. 0 (96.52) \mathcal{O} Ø 0 0 0 (++) $\overline{+}$ 1.500 ± .020 (38.10 ± .51) 2.00

DC Coil

Contact Terminal Options



Main Contact Ordering and Replacement Information

Contact Replacement Kits

Contact replacement kits for 3 pole models include 3 contact pressure springs, 3 movable contact assemblies and 6 stationary contact assemblies. Kits for 4 pole models include 4 contact pressure springs, 4 movable contact assemblies and 8 stationary contact assemblies. Contact replacement kits are for use only on those models with form X contact arrangements.

Kits for P30 contactors:

3 Form X models - Kit No. 9P30X1 4 Form X models - Kit No. 9P30X2

Kits for P40 contactors:

3 Form X models - Kit No. 9P40X1 4 Form X models - Kit No. 9P40X2

To Replace Contacts:

- 1. Remove screws holding dust cover in place, and remove cover.
- 2. Compress and remove contact pressure springs.
- 3. Lift movable contacts and remove.
- 4. Remove screws holding stationary contact in place, and remove contacts.
- 5. Reverse the above procedure to install new stationary and movable contacts. Caution: Do not overtighten the screws, as it is possible to strip the threads.

Specifications and availability subject to change.

(50.8)

P&B

Dimensions are in inches over (millimeters) unless otherwise specified.