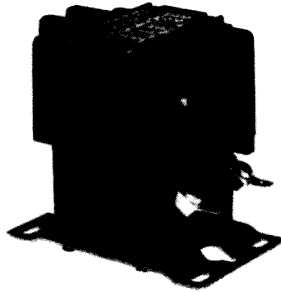


DC Coil



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

P30 No. R 97070

P40 No. R 97071

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

Type	Motor Rating in Amps, 3Ø3P or 1Ø2P				Resistive Rating @ 600V	Tungsten Rating @277V
	Full Load @ 600V	Locked Rotor				
		@ 240V	@480V	@ 600V		
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).

TYPE	Motor Rating in Horsepower			
		@ 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 6 to 240VDC, and 24 to 600VAC, 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.

COIL DATA

Nominal VDC	Resistance (Ohms ± 10% @ 25° C)	Must Operate* Volts	Maximum Operating Volts	Nominal Coil Current (ma) @ Nominal Voltage
6	5.2	4.5	7	1,154
12	20.8	9	15	577
24	84	18	30	286
48	334	36	57	144
60	529	45	72	113
120	2,110	90	144	57
240	9,000	180	288	26

AC Voltage Rating	Nominal	Must Operate*
	50/60 Hz.	50/60 Hz.
24	24	20.4
120	110/120	94
240	208/240	177
277	277	236
480	440/480	374
600	550/600	468

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

Note: Coil suppression is recommended for all DC coil units, particularly 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" (6.35 mm) quick connect. or combination box lug and dual .250" (6.35 mm) quick connect.

Coil: Combination 8-32 screw and .250" (6.35 mm) quick connect.

Aux. Switch: .250" (6.35 mm) quick connect, .187" (4.75 mm) quick connect.

Weight: 3 Pole Models: 25 oz. (709 g) approximately.

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