

Series CDP2 Definite Purpose Contactors



Sprecher + Schuh's Definite Purpose contactors are ideal for commercial applications including air conditioning, refrigeration, resistive heating and many other installations where a low cost, high performance contactor is needed. These devices offer flexibility and are designed to meet or exceed electrical and mechanical requirements as defined by definite purpose contactor standards.

- Universal mounting plate
- 25A & 30A have screw power terminals that will accept ring-tongue terminals
- 40A and larger have box power terminals
- Dual quick-connect power terminals on all sizes
- Dual quick-connect coil terminals on all sizes
- Double break power contact design with feed-thru wiring
- Class B (130°C) coil insulation
- Double E magnet assembly



Flexibility and convenience make installation easy

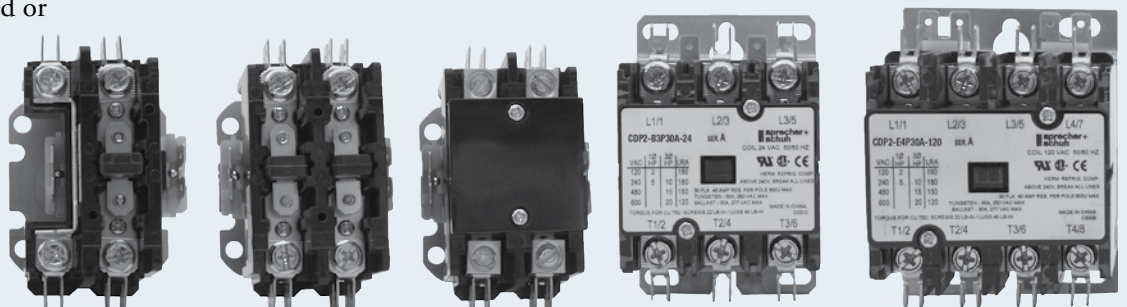
CDP2 contactors are compact in size and offer three convenient methods of wire connection: quick connect terminals, screws or box lugs. Box lugs are standard on 40A and larger contactors. Other models come standard with combination quick connect terminals and screws that accept hex, slotted or phillips screwdrivers.

Popular sizes for most applications

The CDP2 series consists of one, two, three and four pole contactors rated to 600V AC. Three pole devices range up to 90A, while the one and two pole models are rated to 40A. Four pole contactors are also available ranging from 25A to 40A.

Optional Features

- SPDT auxiliary contacts optional on 3- and 4-pole contactors (max of two)
- Optional covers for 1- and 2-pole contactors
- Mechanical interlock for 3-pole contactors

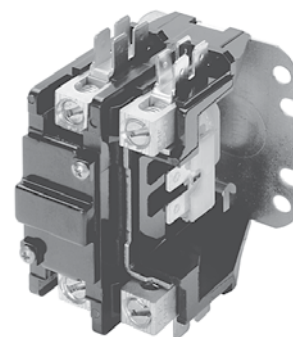


1- and 2- Pole Contactors

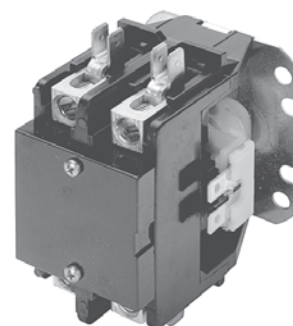
One and Two Pole Definite Purpose Contactors with AC Coil (Open type only) ①

Full Load Amps	Poles	Locked Rotor Amps			Resistive Amps	Maximum H.P.		Catalog Number	Std. Pkg.
						10			
		240V	480V	600V		120V	240V		
30	1	150	75	50	40	1	2	CDP2-A1P30A-*	50
30	2	150	125	100	40	2	3	CDP2-A2P30A-*	50
40	1	200	150	120	50	2	3	CDP2-A1P40A-*	50
40	2	200	150	120	50	2	3	CDP2-A2P40A-*	50

Replace "" with Coil Code below.



Series CDP2 1-pole contactor



Series CDP2 2-pole contactor (with optional cover)

3- and 4- Pole Contactors

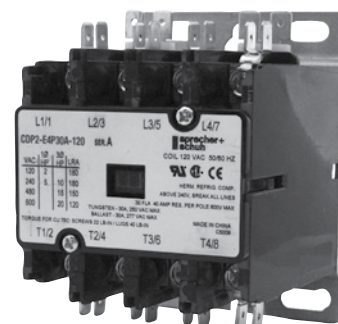
Three Pole Definite Purpose Contactors with AC Coil (Open Type only) ①

Full Load Amps	Locked Rotor Amps			Resistive Amps ②	Maximum Horsepower								Catalog Number	Std. Pkg.
					10			30						
	240V	480V	600V		120V	200V	240V	208V	240V	480V	600V			
30	180	150	120	40	2	~	5	10	10	15	20	CDP2-B3P30A-*	25	
40	240	200	160	50	3	~	7-1/2	10	10	20	25	CDP2-B3P40A-*	25	
50	300	250	200	65	3	7-1/2	10	15	15	25	25	CDP2-C3P50A-*	15	
60	360	300	240	75	5	7-1/2	10	25	25	30	30	CDP2-C3P60A-*	15	
75	450	375	300	93	5	10	15	20	25	40	40	CDP2-D3P75A-*	1	
90	540	450	360	120	7-1/2	15	20	25	30	50	50	CDP2-D3P90A-*	1	

Replace "" with Coil Code below.



Series CDP2 3-pole contactor



Series CDP2 4-pole contactor

Four Pole Definite Purpose Contactors With AC Coil (Open Type only) ①

Full Load Amps	Locked Rotor Amps			Resistive Amps	Maximum Horsepower					Catalog Number	Std. Pkg.
					10		30				
	240V	480V	600V		120V	240V	208V	240V	480V		
30	180	150	120	40	2	5	10	10	15	CDP2-E4P30A-*	20
40	240	200	160	50	3	7-1/2	10	10	20	CDP2-E4P40A-*	20

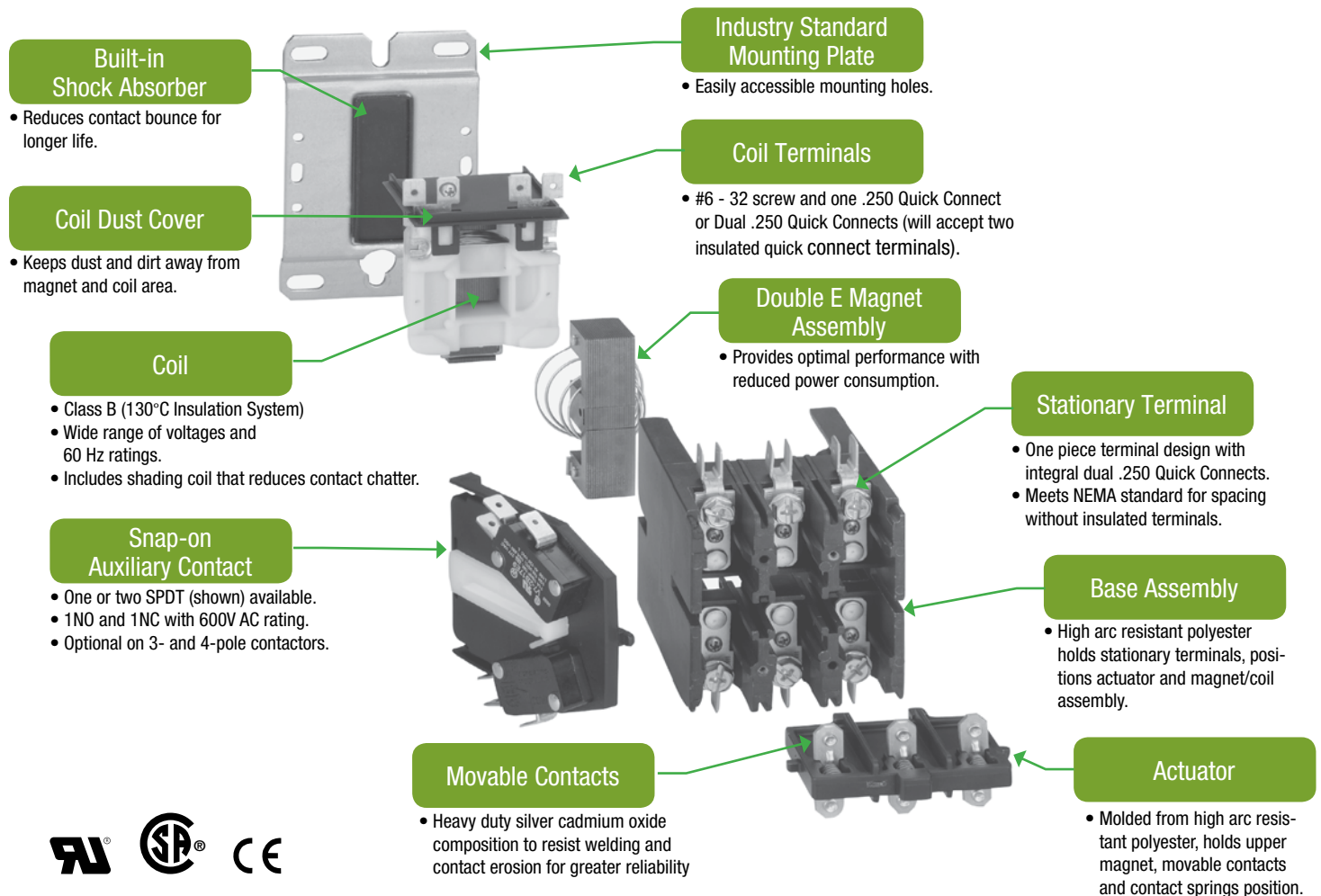
Replace "" with Coil Code at right.

① 25A contactors only available by special order. Contact your Sprecher + Schuh representative.

AC Coil Codes

AC Coil Code	Voltage Range
	60 Hz
24	24V
120	120V
220W	208-240V
277	277V
480	480V

CDP2 Product Features



Accessories



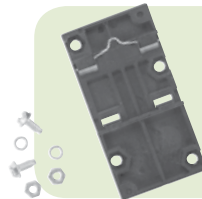
One pole Auxiliary Contact Block (SPDT) –

- Side mount with quick connect stabs
- for 25...40A, 3- OR 4-pole contactors – CDP2-BE-1SPDT



Two pole Auxiliary Contact Block –

- 1-NO / 1-NC
- Side mount with quick connect stabs
- for 25...40A, 3- or 4-pole contactors – CDP2-BE-11
- for 50...90A, 3-pole contactors – CDP2-CD-11



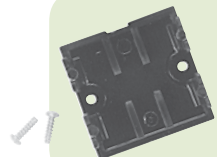
DIN-rail Adaptor -

- Attaches to the universal mounting plate of 1-, 2-, 3- and 4-pole contactors
- 25...40 Amps – CDP2-DRA



Mechanical Interlock -

- Can be combined with electrical interlocks on 3-pole and 4-pole contactors as required – CDP2-MK1



Contactor Cover-

- Prevents foreign particles from entering contactor. Covers current carrying parts.
- For use with:
 - 1-Pole – CDP2-A1P30A
 - 2-Pole – CDP2-A2P30A

Contact your Sprecher + Schuh representative for complete product information.

Lighting Rated CDP2 Contactor

Description

Sprecher + Schuh Definite Purpose contactors can be used to control a mixture of lighting loads. These contactors are well suited to handle the high inrush currents typical of this application as well as other non-motor (resistive) loads.

Lamps can basically be divided into three categories:

- Tungsten Filament Lamps
 - General purpose incandescent
 - Special purpose incandescent
 - Infrared
 - Sodium Iodine
- Discharge Lamps (with Ballast)
 - Fluorescent lamps - Mercury vapor
 - High/low pressure sodium
 - Quartz
 - Halogen metal-vapor
- Mixed Light Lamps

In Application...

The tungsten filaments of incandescent lamps have a very low ohmic resistance when cold. As a result, the closing current is very high but also very short. The closing current of discharge lamps (lighting with ballast) is highly inductive (due to series-connected transformers or chokes), and its duration depends on the lamp type.

Electrically held contactors

Electrically held contactors are available for use where the control signal is activated by a timer or other maintained electrical signal. The coil is energized as long as the contactor is closed. This design is well suited for applications where lights are operated frequently or where the control panel is in a remote location.

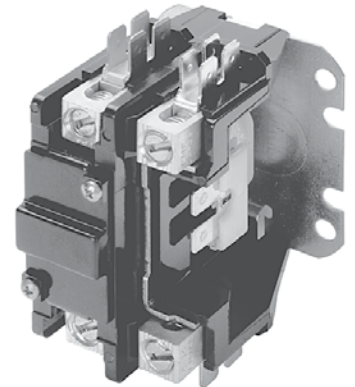
Definite Purpose Lighting Contactors with AC Coil (Open Type only)

Tungsten Rating (Amps)	Ballast Rating (Amps)	Number of Poles	Standard Auxiliary Contacts		Electrically Held
			NO	NC	Open Type
					Catalog Number
30	40	1	0	0	CDP2-A1P30A-*
40	40	1	0	0	CDP2-A1P40A-*
30	40	2	0	0	CDP2-A2P30A-*
40	40	2	0	0	CDP2-A2P40A-*
30	40	3	0	0	CDP2-B3P30A-*
40	40	3	0	0	CDP2-B3P40A-*
30	40	4	0	0	CDP2-E4P30A-*
40	40	4	0	0	CDP2-E4P40A-*

Replace "" with Coil Code at right.

AC Coil Codes

AC Coil Code	Voltage Range
	60 Hz
24	24V
120	120V
220W	208-240V
277	277V
480	480V



Series CDP2 1-pole contactor



Series CDP2 3-pole contactor

Three Pole Definite Purpose Contactors with AC Coil				
CDP2	B	3P	30A	24
Type	Frame Size	Poles	Amp Rating	Coil Voltage
Definite Purpose	B = 30 & 40A C = 50 & 60A D = 75 & 90A	3P = 3 poles	30A = 30 amps 40A = 40 amps 50A = 50 amps 60A = 60 amps 75A = 75 amps 90A = 90 amps	24 = 24 volts 120 = 120 volts 220W = 208-240 volts 277 = 277 volts 480 = 480 volts

Contact your Sprecher + Schuh representative for complete product information.

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