

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 = easy installation

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.



Multiple Certifications

- UL508/cURus
- CSA
- CE/IEC
- A2L

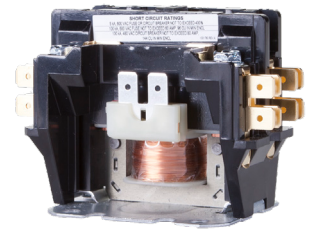


1- and 2- Pole Contactors

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.
						1Ø			
		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.
					1Ø			3Ø						
	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.
					1Ø		3Ø				
	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 below.

AC Coil Codes

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

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

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

Tungsten Rating (Amps)	Ballast Rating (Amps)	Number of Poles	Standard Auxiliary Contacts		Electrically Held Open Type
			NO	NC	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



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.

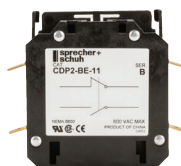
Electrically held contactors

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.

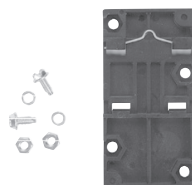
Accessories



- 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



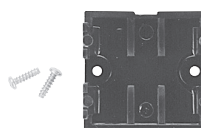
DIN-rail Adaptor -

- 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

CDP2 Definite Purpose Contactors

CDP2 -

Type
Definite
Purpose

B

Frame Size
B = 30 & 40A
C = 50 & 60A
D = 75 & 90A

3P

Poles
3P = 3 poles

30A

Amp Rating
30A = 30 amps
40A = 40 amps
50A = 50 amps
60A = 60 amps
75A = 75 amps
90A = 90 amps

- 24

Coil Voltage
24 = 24 volts
120 = 120 volts
220W = 208-240 volts
277 = 277 volts
480 = 480 volts

Built-in Shock Absorber

- Reduces contact bounce for longer life.

Coil Dust Cover

- Keeps dust and dirt away from magnet and coil area.

Coil

- Class B (130°C Insulation System)
- Wide range of voltages and 60 Hz ratings.
- Includes shading coil that reduces contact chatter.

Snap-on Auxiliary Contact

- One or two SPDT (shown) available.
- 1NO and 1NC with 600V AC rating.
- Optional on 3- and 4-pole contactors.

Movable Contacts

- Heavy duty silver cadmium oxide composition to resist welding and contact erosion for greater reliability

Industry Standard Mounting Plate

- Easily accessible mounting holes.

Coil Terminals

- #6 - 32 screw and one .250 Quick Connect or Dual .250 Quick Connects (will accept two insulated quick connect terminals).

Double E Magnet Assembly

- Provides optimal performance with reduced power consumption.

Stationary Terminal

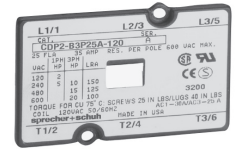
- One piece terminal design with integral dual .250 Quick Connects.
- Meets NEMA standard for spacing without insulated terminals.

Base Assembly

- High arc resistant polyester holds stationary terminals, positions actuator and magnet/coil assembly.

Actuator

- Molded from high arc resistant polyester, holds upper magnet, movable contacts and contact springs position.



Optional Cover

- For 1-Pole and 2-Pole units only

For more information, contact your
Sprecher + Schuh Authorized Distributor

visit www.sprecherschuh.com

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