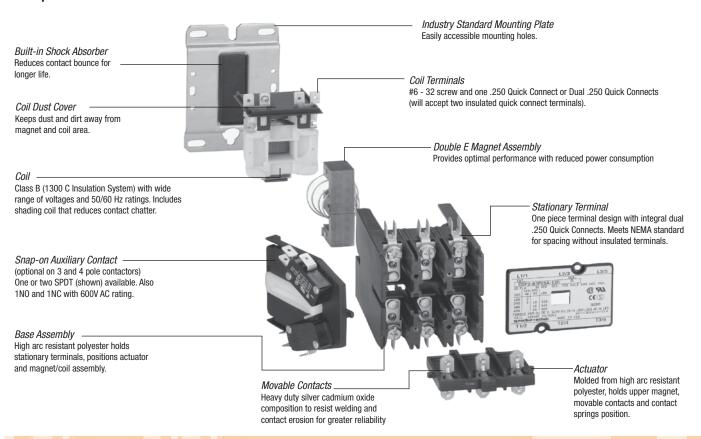
Compare These Features



Quick Selection Guide

One and Two Pole Definite Purpose Contactors with AC Coil - See page A152									
CDP2									
Туре	Frame Size	Poles	Amp Rating	C	oil Voltage				
Definite	A = 30 & 40A	1P = 1 pole	30A = 30 amps	24	= 24 volts				
Purpose		2P = 2 pole	40A = 40 amps	120	= 120 volts				
				220W	= 208-240 volts				
				277	= 277 volts				

1	Three Pole Definite Purpose Contactors with AC Coil- See page A153										
CDP2 0 2	В	3P	30A		24						
Туре	Frame Size	Poles	Amp Rating	C	oil Voltage						
Definite	B = 30 & 40A	3P = 3 poles	30A = 30 amps	24	= 24 volts						
Purpose	C = 50 & 60A		40A = 40 amps	120	= 120 volts						
	D = 75 & 90A		50A = 50 amps	220W	= 208-240 volts						
			60A = 60 amps	277	= 277 volts						
			75A = 75 amps	480	= 480 volts						
			90A = 90 amps								

	Four Pole Definite Purpose Contactors with AC Coil - See page A154											
CDP2 0 2	E	4P	25A		24							
Туре	Frame Size	Poles	Amp Rating	C	Coil Voltage							
Definite	E = 2540A	4P = 4 poles	25A = 25 amps	24	= 24 volts							
Purpose			30A = 30 amps	120	= 120 volts							
			40A = 40 amps	220W	= 208-240 volts							
				277	= 277 volts							
				480	= 480 volts							

- Screw power terminals standard on 30A.
 Box lug power terminals standard for 40A and larger.
- Box lugs on 30A available with volume special order only.

LS

4

One and Two Pole Definite Purpose Contactors with AC Coil (Open type only) 4

Full		Looko	Locked Rotor Amps Resistive Amps @ 10			Maxim	um H.P.			
Load Amps	Poles	LUCKE			Ø	Catalog	Price	Std. F		
Allips		240V 🛭	480V	600V		120V	240V @	Number	Each	Pkg.
30 🛈	1 6	150	75	50	40	1	2	CDP2-A1P30A-* @	68	50
30 ①	2	150	125	100	40	2	3	CDP2-A2P30A-* @	84	50
40	1 🗿	200	150	120	50	2	3	CDP2-A1P40A-* €	84	50
40	2	200	150	120	50	2	3	CDP2-A2P40A-* €	99	50



Series CDP2 1-pole contactor



Series CDP2 2-pole contactor (with optional cover)

Accessories

Accessory	Description	For use with	Catalog Number	Price
	Contactor Cover- Prevents foreign particles from entering contactor. Covers current carrying parts.	CDP2-A1P30A CDP2-A2P30A	CDP2-A1P-C OCDP2-A2P-C	8 10

AC Coil Codes

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

Specify Catalog Number	
Replace (*) with Coil Code	See Coil Codes on this page

- 25A contactors only available by special order. Contact your Sprecher +Schuh representative.
- **2** 240V rating also applies to 277V applications.
- Box Power Lugs are supplied as standard. Screw terminals are available on the power connections by special order only in quantity.
- **4** 1 and 2 Pole, 25 and 30A contactors supplied without cover. See Accessories for cover options.
- Screw Power Terminals are supplied standard on 25 and 30A contactors. Box Lugs available by special order only in quantity.
- **1**-Pole (1-pole plus) contactors include a shunt for termination and feed-thru of neutral.
- 40 Amp contactors are supplied with cover as standard.



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

													_	
Full	Locked Rotor			Resistive		Max	ximum	Horse	epowe	r 0				
Load	A	Amps				10			3	Ø		Catalog	Price	Std. F
Amps	240V ②	480V	600V		120V	200	240V	200V	240V	480V	600V	Number	Each	Pkg.
30 🗨	180	150	120	40	2	~	5	10	10	15	20	CDP2-B3P30A- * 	107	25
40	240	200	160	50	3	~	7-1/2	10	10	20	25	CDP2-B3P40A- * ⊙	131	25
50	300	250	200	65	3	7-1/2	10	15	15	25	25	CDP2-C3P50A-*	239	15
60	360	300	240	75	5	7-1/2	10	25	25	30	30	CDP2-C3P60A-*	277	15
75	450	375	300	93	5	10	15	20	25	40	40	CDP2-D3P75A-*	362	1
90	540	450	360	120	7-1/2	15	20	25	30	50	50	CDP2-D3P90A-*	499	1



Series CDP2 3-pole contactor

Auxiliary Contacts for 3 Pole Contactors

Auxiliary	Description	Circuit Diagram	Catalog Number	Price
A PARTIE OF THE	Two pole Auxiliary Contact Block (1-N0 / 1-NC) - Side mount with quick connect stabs for 2540A, 3 pole contactors for 5090A, 3 pole contactors	NC O O	CDP2-BE-11 @ CDP2-CD-11 @	41 41
20	One pole Auxiliary Contact Block (SPDT) - Side mount with quick connect stabs for 2540A, 3 or 4 pole contactors	COM O NO	CDP2-BE-1SPDT &	35

AC Coil Codes

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

Specify Catalog Number	
Replace (*) with Coil Code	See Coil Codes on this page

- 25A contactors available by special order. Contact your Sprecher + Schuh representative.
- 2 240V rating also applies to 277V applications.
- Box lugs are supplied as standard. Screw terminals are available on the power connections by special order only in quantity.
- Screw power terminals are supplied standard on 25 and 30A contactors. Box Lugs available by special order only in quantity.
- **6** Meets NEMA Standard B600. See page A10 for technical details.
- Meets NEMA Standard B600 EXCEPT has 10 A continuous current rating.

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A

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

Full	l Dad l Willba l			Max	ximum	Horse	powe	r @				
Load			d Amps		Resistive Amps @	1	Ø		30		Catalog	Price
Allips	240V ②	480V	600V		120V	240V	200V	240V	480V	Number	Each	Pkg.
30 0	180	150	120	40	2	5	10	10	15	CDP2-E4P30A-* 9	142	20
40	240	200	160	50	3	7-1/2	10	10	20	CDP2-E4P40A-* [©]	164	20



Series CDP2 4-pole contactor

Auxiliary Contacts for 4 Pole Contactors

Auxiliary	Description	Circuit Diagram	iagram Catalog Number	
A CONTRACTOR OF THE PARTY OF TH	Two pole Auxiliary Contact Block (1-N0 / 1-NC) - Side mount with quick connect stabs for all 4 pole contactors	NC O O	CDP2-BE-11	41
	One pole Auxiliary Contact Block (SPDT) - Side mount with quick connect stabs for all 4 pole contactors	COM O O NO	CDP2-BE-1SPDT	35

A.C. Coil Codes

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

Specify Catalog Number	
Replace (*) with Coil Code	See Coil Codes on this page

- 25A contactors available by special order. Contact your Sprecher + Schuh representative.
- 240V rating also apples to 277V applications.
- On Box Power Lugs are supplied as standard. Screw terminals are available on the power connections by special order only in quantity.
- Screw per terminals are supplied standard on 25 and 30A contactors. Box Lugs available by special order only in quantity.

Lighting Rated Contactors - Series CDP2

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

			Stan	dard	Electrically He	ld		
Tungsten Rating (Amps)	Ballast Rating (Amps)	Number of Poles	Auxiliary Contacts NO NC		,		Open Type	
(Allips)	(Allips)				Catalog Number	Price		
30	40	1	0	0	CDP2-A1P30A-*	68		
40	40	1	0	0	CDP2-A1P40A-*	84		
30	40	2	0	0	CDP2-A2P30A-*	84		
40	40	2	0	0	CDP2-A2P40A-*	99		
30	40	3	0	0	CDP2-B3P30A-*	107		
40	40	3	0	0	CDP2-B3P40A-*	131		
30	40	4	0	0	CDP2-E4P30A-*	142		
40	40	4	0	0	CDP2-E4P40A-*	164		



Series CDP2 1-pole contactor



Series CDP2 3-pole 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 seriesconnected 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.

AC Coil Codes

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

Specify Catalog Number	
Replace (*) with Coil Code	See Coil Codes on this page



Accessories

Auxiliary	Description	For use with	Catalog Number	Price
	DIN-rail Adaptor - Attaches to the universal mounting plate of 1-, 2-, 3- and 4-pole contactors 2540 Amps.	CDP2-A1PB3P CDP2-E4P	CDP2-DRA	13
	Mechanical Interlock - Can be combined with electrical interlocks on 3-pole and 4-pole contactors as required.	CDP2-B3P CDP2-E4P	CDP2-MK1	19

Technical Data

Short-Circuit Coordination

		25-30A 1+2-Pole	40A 1+2-Pole	25-30A 3-Pole	40A 3-Pole	50-90A 3-Pole	25-30A 4-Pole	40A 4-Pole
Standard Short Circuit Rating	[kA]	5	5	5	5	5	5	5
High Current Short Circuit Ratin	ıg							
Class J-fuses	•							
Available fault current	[kA]	100	100	100	100	0	100	100
cUL Max. fuse (600V)	[A]	60	100	60	100	0	50	100
Enclosure Minimum	[in ³]	96	96	144	144	0	144	144
Molded Case Circuit Breaker								
Available fault current	[kA]	100	100	100	100	0	100	100
cUL Max. breaker (480V)	[A]	80	80	80	100	0	80	100
Enclosure Minimum	[in ³]	144	144	144	144	0	144	144

Service Life

Mechanical (operations)	1,000,000	1,000,000	1,000,000	1,000,000	500,000	1,000,000	1,000,000
Electrical (operations)							
Resistive Load (UL)	250,000	250,000	250,000	250,000	6,000 🔞	250,000	250,000
Inductive Load (UL)	100,000	100,000	100,000	100,000	6,000 4	100,000	100,000
Inductive Load (Self-certified)	200,000	200,000	200,000	200,000	200,000	200,000	200,000

Data for Surge Suppression Selection

120 VAC Coils	Resistor	Capacitor		
1 Pole	680 ohms	0.47 n <i>f</i>		
2 Pole	330 ohms	0.47 n <i>f</i>		
3P 30/40 Amp	220 ohms	0.47 n <i>f</i>		
4P 30 Amp	220 ohms	0.47 n <i>f</i>		
3P 50/60 Amp	150 ohms	0.47 n <i>f</i>		
3P 75/90 Amp	68 ohms	0.47 u <i>f</i>		

Snubber @	
RCS1M-6	
RCS1K-6	
RCS1A-6	
RCS1A-6	
RCS1H-6	
RCS1E-6	

- UL testing not complete at the time of this printing.
- Recommended snubbers from RK Electric.
- ❸ UL File update to 250,000 pending at the time of this printing. 250,000 Self-certified at this time.
- 4 UL File update to 100,000 pending at the time of this printing.



Series CDP2 Definite Purpose Contactors

General Specificati	ons	CDP2	CDP2	CDP2	CDP2	CDP2
		2540A,	2540A,	5060A,	7590A,	2540A,
Approvals		1 & 2 pole	3 pole	3 pole	3 pole	4 pole
UL			UL508,	Guide No. NLDX2-File No.	E3125	
CSA		C22.2 No. 14, (Class; 321104-File No. 210	566 (75A, 3 pole / C22.2 N	lo. 14, Class: 122201 - File	e No. 210566)
CE / SEMKO			Certified EN60947-4-1	: 2000 and A1: 1995 (Exce	pt 75A & 90A, 3 pole)	
IEC			IEC 947	7-4-1 (Except 50A90A, 3	3 pole)	
CCC			Registration # 200	05010304145109 (Except 5	5090A, 3 pole)	
ine and Load Terminals		#10 - 32 screw or box lug	#10 - 32 screw or box lug	Box lug	Box lug	#10 - 32 screw or box lu
Wire Size (min/max)						
#10 - 32 screw (all 25A & 30	DA) [AWG]	16 - 8 🛈	16 - 8 🛈	~	~	16 - 8 0
Box Lug (≥40A)	[AWG]	14 - 4 Cu/Al	14 - 4 Cu/Al	14 - 2 Cu/Al	14 - 1/0 Cu/Al	14 - 4 Cu/Al
Recommended Tightening To	orque					
#10 - 32 screw (all 25A & 30	OA devices)	22 lbs-in	22 lbs-in	~	~	22 lbs-in
Box Lug (40A devices only)		40 lbs-in	40 lbs-in	50 lbs-in	50 lbs-in	40 lbs-in
Quick Connects						
Coil Terminals		Dual .250 QC (2)	Quad250 QC (2)	#6-32 screw 7 .250 QC (2)	#6-32 screw 7 .250 QC (2)	Dual .250 QC (2)
Power Terminals		1 pole: Quad .250 QC	Dual .250 QC (2)	Dual .250 QC (2)	Dual .250 QC (2)	Dual .250 QC (2)
		2 pole: Quad .250 QC				
Arc Cover		Optional	Standard	Standard	Standard	Standard
Insulation System				130°C Class B		
Temperature Range	[°C]			-40°C to +65°C		
	[°F]			-40°F to +150°F		
Weight		1 pole 0.5 lb	1 lb	2 lbs	4 lbs	1.5 lbs.
III /CCA Datings for OEA special (andar cantactors	2 pole: 0.6 lb	O Dolo	2 Dolo		
UL/CSA Ratings for 25A special of		1 Pole	2 Pole	3 Pole	-	
	0/277 V [A]	150	150	150		
48		125 100	125 100	125 100		
Resistive Amps	[A]	35	35	35	_	
nesistive Amps		2	2	2	-	
Max. HP $1 \varnothing \frac{12}{24}$		3	3	3		
20		~	~	7.5	-	
23		~	~	7.5 7.5		
3Ø 46		~	~	10		
57		~	~	10		
Coil Data	[]					
1 Pole Contactors (2540A)	,	24V Coils	120V Coils	220W Coils	277V Coils	480V Coils
Normal Coil Voltage	[V]	24 v Golis 24	120 v Colls	208 / 240	<u>2774 Gulls</u> 277	400V GUIIS ~
Pickup voltage (Max.)	[V]	18	88	177	221	~
Drop-out/Voltage Range	[V]	615	2070	40140	50165	~
Nominal Inrush	[*]	010	2070	40140	00100	~
50 Hz	[VA]	22.5	22.5	22.5	22.5	~
60Hz	[VA]	20	20	20	20	~
Nominal Seal-in	14	-	-	-	-	~
50 Hz	[VA]	7	7	7	7	~
60 Hz	[VA]	5.25	5.25	5.25	5.25	~
Nominal DC Resistance	$[\Omega]$	16.5	420	1850	2650	~
2 Pole Contactors (2540A)						~
Normal Coil Voltage	[V]	24	120	208 / 240	277	~
Pickup voltage (Max.)	[V]	18	88	177	221	~
Drop-out Voltage Range	[V]	615	2070	40140	50165	~
Nominal Inrush						~
50 Hz	[VA]	37	37	37	37	~
60Hz	[VA]	35	35	35	35	~
Nominal Seal-in						~
50 Hz	[VA]	8	8	8	8	~
60 Hz	[VA]	7	7	7	7	~
Nominal DC Resistance	[Ω]	11	250	1000	1600	~

• Stranding must be split for #8 wire.



Series CDP2 Definite Purpose Contactors

Coil Data (continued)		50/60 Hz 24V Coils	110 - 50 Hz 120 - 60 Hz 120V Coils	220 - 50 Hz 208-240 - 60 Hz 220W Coils	277 - 60 Hz 277V Coils	440 - 50 Hz 480 - 60 Hz 480V Coils
3 Pole Contactors (2540A)						
Nominal Coil Voltage	[V]	24	120	208-240	277	480
Pickup Voltage (Max.)	[V]	18	88	177	220	384
Drop-out Voltage Range	[V]	615	2070	40140	60185	150270
Nominal Inrush						
50 Hz	[VA]	60	60	60	60	65
60Hz	[VA]	53	53	53	53	53
Nominal Seal-in						
50 Hz	[VA]	7.5	7.5	7.5	7.5	7.5
60 Hz	[VA]	6	6	6	6	6
Nominal DC Resistance	[Ω]	7	180	720	950	3100
3 Pole Contactors (5060A)	[]	·		. 20		0.00
Nominal Coil Voltage	[V]	24	120	208-240	277	480
Pickup Voltage (Max.)	[V]	18	93	177	235	374
Drop-out Voltage Range	[V]	615	2070	40135	50180	120286
Nominal Inrush	r.1		200		55100	3
50 Hz	[VA]	104	102	114	~	98
60Hz	[VA]	96	112	125	108	108
Nominal Seal-in	[4, 4]	00	112	120	100	100
50 Hz	[VA]	12	10	12	~	10
60 Hz	[VA]	10	10	12	10	10
Nominal DC Resistance	[Ω]	4	52	282	453	1390
3 Pole Contactors (7590A)	[32]	-	JL .	202	700	1000
Nominal Coil Voltage	[V]	24	120	208-240	277	480
Pickup Voltage (Max.)	[V]	18	88	177	220	384
Drop-out Voltage Range	[V]	615	2070	40110	65185	150270
Nominal Inrush	[v] [Ω]	013	2070	40110	03103	130270
50 Hz	[VA]	220	206	260	~	206
60Hz		190	210	260	202	208
Nominal Seal-in	[VA]	190	210	200	202	200
50 Hz	[VA]	21	16	25	~	17
60 Hz		16	16	25 25	~ 17	17
Nominal DC Resistance	[VA]	.66	15.8	50	93	258
4 Pole Contactors (2540A)	[Ω]	.00	13.0	30	93	230
	пл	24	120	200 240	277	400
Nominal Coil Voltage Pickup voltage (Max.)	[V]	24 19.2	120 93	208-240 177	277 220	480 384
,	[V]					
Drop-out Voltage Range	[V]	615	2070	40140	50185	15270
Nominal Inrush	Π/Α1	60	60	60	60	67
50 Hz 60 Hz	[VA] [VA]	62 59	62 59	62	62	67
	[vA]	ນສ	39	59	59	60
Nominal Seal-in	Π/Α1	0	0	0	0	0
50 Hz	[VA]	9	9	9	9	9
60 Hz	[VA]	7	7	7	7	7
Nominal DC Resistance	[Ω]	6	150	600	750	2400
Operating Times						
AC: 50Hz, 60hz		0.00	0.00	0.00	0.00	0.00
Pick-up [ms]		020	020	020	020	020
Drop-out [ms]		030	030	030	030	030

Auxiliary Contacts

2 Pole (NO/NC) - Single Circuit Contact Rating									
Voltage Rating		120	240	480	600				
Amperes	Break	3.0	1.5	0.75	0.6				
	Make	30	15	7.5	6				
	Continuous	10	10	10	10				

SPDT

10A, 1/3 HP, 125 or 250V AC; 1/2A, 125 V DC; 1/4A, 250V DC; 4A, 120V AC on Lamp Load