

# Definite purpose contactors

20 A to 60 A



Full Load Amps	Number of Poles	Locked Rotor Amps			Resistive Amps	Maximum HP						Standard Pack Qty	Catalog Number
		240V	480V	600V		Single Phase		Three Phase					
						120V	240V	208V	240V	480V	600V		
20	1	120	100	80	30	1	2	-	-	-	-	50	DP20C2P-1
20	2	120	100	80	30	2	3	-	-	-	-	50	DP20C2P-1
20	3	120	100	80	30	1.5	3	7.5	7.5	7.5	7.5	25	DP20C3P-1
25	1	150	125	100	35	1	2	-	-	-	-	50	DP25C1P-1
25	2	150	125	100	35	2	3	-	-	-	-	50	DP25C2P-1
25	3	150	125	100	35	2	5	7.5	10	15	20	25	DP25C3P-1
30	1	150	125	100	40	1	2	-	-	-	-	50	DP30C1P-1
30	2	150	125	100	40	2	3	-	-	-	-	50	DP30C2P-1
30	3	180	150	120	40	2	5	10	10	15	20	25	DP30C3P-1
30	4	180	150	120	40	2	5	10	10	15	-	25	DP30C4P-1
40	2	200	160	120	50	2	3	-	-	-	-	50	DP40C2P-1
40	3	240	200	160	50	3	7.5	10	10	20	25	25	DP40C3P-1
40	4	240	200	160	50	3	7.5	10	10	10	-	25	DP40C4P-1
50	3	300	250	200	65	3	7.5	15	15	25	25	25	DP50C3P-1
60	3	360	300	240	75	5	10	20	25	30	30	25	DP60C3P-1

## Coil Voltage Selection Chart

Voltage	24VAC	120VAC	208/240VAC	277VAC	480VAC	575VAC
Suffix #	F	1	2	C	4	6

All catalog numbers include a 120VAC coil.

To select other coil voltages, substitute the code from the coil voltage selection chart for the first digit after the dash in the catalog number.

# Definite purpose contactors

## Accessories

### Auxiliary Contact Blocks

Description	DP20 to DP40, 3 pole and 4 pole configurations	DP50 to DP60
Form C SPDT	CADP40-10	CADP40-10
Double Form C SPDT	CADP40-20	CADP40-20
Form Z SPDT (1NO & 1NC)**	CADP40-11	CADP40-11

\*\* Must be the same polarity on both poles. For a complete description on contact types, please refer to page 7.



### Mechanical Interlock

Application	Part Number
DP30C3P-*	VMDP-1
DP40C3P-*	VMDP-1

### Protective Cover

Application	Part Number
DP20C2P-*	DP-2-AC
DP25C2P-*	DP-2-AC
DP30C2P-*	DP-2-AC



### Din-Rail Mounting Bracket

Application	Part Number
DP20C1P-*	DP/DIN1-2
DP25C1P-*	DP/DIN1-2
DP30C1P-*	DP/DIN1-2
DP20C2P-*	DP/DIN1-2
DP25C2P-*	DP/DIN1-2
DP30C2P-*	DP/DIN1-2

Note: Replace “\*” with appropriate coil voltage as per previous page

# Technical Data

## Contact rating of SPDT auxiliary contacts

Voltage	Current rating
125 VAC	10 A, 1/3 HP
120 VAC	4 A on lamp load
250 VAC	10 A, 1/3 HP
125 VDC	0.5 A
250 VDC	0.25 A

## Contact rating of 1 N.O. & 1 N.C. auxiliary contacts

	120V	240V	480V	600V
Break (A)	3.0	1.5	0.75	0.6
Make (A)	30	15	7.5	6
Continuous (A)	10	10	10	10

## DP20 to DP40, 1 & 2 poles

Coil Technical Data		DP20 to DP30, 1 pole				DP20 to DP40, 2 poles			
Nominal coil voltage		24	120	208/240	277	24	120	208/240	277
Maximum pickup volts		18	88	177	221	18	88	177	221
Drop out volts range		6 - 15	20 - 70	40 - 140	50 - 165	6 - 15	20 - 70	40 - 170	50 - 165
Nominal inrush VA	50 Hz	31	31	31	31	33	33	33	33
Nominal inrush VA	60 Hz	28	28	28	28	30	30	30	30
Nominal closed VA	50 Hz	6	6	6	6	8	8	8	8
Nominal closed VA	60 Hz	5	5	5	5	6.5	6.5	6.5	6.5
Nominal DC resistance	Ohms	18	420	1800	2500	11	237	1000	1600
Other specifications		DP20 to DP30, 1 and 2 poles				DP40, 2 poles			
Line and load terminals		# 10 - 32 screw				Box lug			
Wire size AWG (min - max)		16 - 8				14 - 4 Cu/Al			
Tightening torque (recommended)		25 in. lbs.				40 in. lbs.			
Coil terminals		Dual .250" QC				Dual .250" QC			
Power Terminals		1 Pole: Quad .250" QC 2 Pole: Dual or Quad .250" QC				Quad			
Covers		Optional				Dual or quad			
Insulation System		130° C class B				Standard 130° C class B			

## DP20 to DP60, 3 poles

Coil Technical Data		DP20 to DP40, 3 poles					DP50 to DP60, 3 poles				
Nominal coil voltage		24	120	208/240	277	480	24	120	208/240	277	480
Maximum pickup volts		18	88	177	220	384	18	88	177	220	374
Drop out volts range		6 - 15	20 - 70	40 - 140	50 - 140	150 - 270	6 - 15	20 - 70	40 - 140	50 - 185	150 - 286
Nominal inrush VA	50 Hz	65	65	65	65	65	62	62	62	62	62
Nominal inrush VA	60 Hz	60	60	60	60	60	59	59	59	59	59
Nominal closed VA	50 Hz	7.5	7.5	7.5	7.5	7.5	9	9	9	9	9
Nominal closed VA	60 Hz	6	6	6	6	6	7	7	6	7	7
Nominal DC resistance	Ohms	7	180	720	900	1320	2.4	150	600	750	1452

Other specifications	DP20 to DP30, 3 poles	DP40, 3 poles	DP50 to DP60, 3 poles
Line and load terminals	# 10 - 32 screw <sup>1</sup>	Box lug <sup>1</sup>	Box lug <sup>1</sup>
Wire size AWG (min - max)	16 - 8 <sup>2</sup>	14 - 4 Cu/Al	14 - 2 Cu/Al
Tightening torque (recommended)	22 in. lbs.	40 in. lbs.	50 in. lbs.
Quick connects (power terminals)	Dual .250 QC	Dual .250 QC	Dual .250 QC
Coil terminals	Dual .250 QC <sup>2</sup>	Dual .250 QC <sup>2</sup>	# 6 - 32 screw & dual .250 QC <sup>2</sup>
Covers	Optional	Standard	Standard
Insulation system	130° C class B	130° C class B	130° C class B

# Technical Data

## DP20 to DP40, 4 poles

Coil Technical Data	DP20 to DP40, 4 poles				
Nominal coil voltage	24	120	208/240	277	480
Maximum pickup volts	18	88	177	220	384
Drop out volts range	6 - 15	20 - 70	40 - 140	65 - 185	150 - 270
Nominal inrush VA      50 Hz	62	62	62	62	62
Nominal inrush VA      60 Hz	59	59	59	59	59
Nominal closed VA      50 Hz	9	9	9	9	9
Nominal closed VA      60 Hz	7	7	6	7	6
Nominal DC resistance      Ohms	6	148	600	750	2100
Other specifications	DP20 to DP30, 4 poles		DP40, 4 poles		
Line and load terminals	# 10 - 32 screw <sup>1</sup>		Box lug <sup>1</sup>		
Wire size AWG (min - max)	16 - 8 <sup>2</sup>		14 - 4 Cu/Al		
Tightening torque (recommended)	22 in. lbs.		40 in. lbs.		
Quick connects (power terminals)	Dual .250 QC		Dual .250 QC		
Coil terminals	Dual .250 QC <sup>2</sup>		Dual .250 QC <sup>2</sup>		
Covers	Optional		Standard		
Insulation system	130 <sup>0</sup> C class B		130 <sup>0</sup> C class B		

<sup>1</sup> See diagram on page 7 for approximate dimensions and description

<sup>2</sup> Stranding must be split for # 8 wire

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Full Load Amps	Number of Poles	Locked Rotor Amps			Resistive Amps	Maximum HP						Standard Pack Qty	Catalog Number
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						120V	240V	208V	240V	480V	600V		
20	1	120	100	80	30	1	2	-	-	-	-	50	DP20C2P-1
20	2	120	100	80	30	2	3	-	-	-	-	50	DP20C2P-1
20	3	120	100	80	30	1.5	3	7.5	7.5	7.5	7.5	25	DP20C3P-1
25	1	150	125	100	35	1	2	-	-	-	-	50	DP25C1P-1
25	2	150	125	100	35	2	3	-	-	-	-	50	DP25C2P-1
25	3	150	125	100	35	2	5	7.5	10	15	20	25	DP25C3P-1
30	1	150	125	100	40	1	2	-	-	-	-	50	DP30C1P-1
30	2	150	125	100	40	2	3	-	-	-	-	50	DP30C2P-1
30	3	180	150	120	40	2	5	10	10	15	20	25	DP30C3P-1
30	4	180	150	120	40	2	5	10	10	15	-	25	DP30C4P-1
40	2	200	160	120	50	2	3	-	-	-	-	50	DP40C2P-1
40	3	240	200	160	50	3	7.5	10	10	20	25	25	DP40C3P-1
40	4	240	200	160	50	3	7.5	10	10	10	-	25	DP40C4P-1
50	3	300	250	200	65	3	7.5	15	15	25	25	25	DP50C3P-1
60	3	360	300	240	75	5	10	20	25	30	30	25	DP60C3P-1

## Coil Voltage Selection Chart

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Double Form C SPDT	CADP40-20	CADP40-20
Form Z SPDT (1NO & 1NC)**	CADP40-11	CADP40-11

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DP40C3P-*	VMDP-1

### Protective Cover

Application	Part Number
DP20C2P-*	DP-2-AC
DP25C2P-*	DP-2-AC
DP30C2P-*	DP-2-AC



### Din-Rail Mounting Bracket

Application	Part Number
DP20C1P-*	DP/DIN1-2
DP25C1P-*	DP/DIN1-2
DP30C1P-*	DP/DIN1-2
DP20C2P-*	DP/DIN1-2
DP25C2P-*	DP/DIN1-2
DP30C2P-*	DP/DIN1-2

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250 VDC	0.25 A

## Contact rating of 1 N.O. & 1 N.C. auxiliary contacts

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Make (A)	30	15	7.5	6
Continuous (A)	10	10	10	10

## DP20 to DP40, 1 & 2 poles

Coil Technical Data		DP20 to DP30, 1 pole				DP20 to DP40, 2 poles			
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Maximum pickup volts		18	88	177	221	18	88	177	221
Drop out volts range		6 - 15	20 - 70	40 - 140	50 - 165	6 - 15	20 - 70	40 - 170	50 - 165
Nominal inrush VA	50 Hz	31	31	31	31	33	33	33	33
Nominal inrush VA	60 Hz	28	28	28	28	30	30	30	30
Nominal closed VA	50 Hz	6	6	6	6	8	8	8	8
Nominal closed VA	60 Hz	5	5	5	5	6.5	6.5	6.5	6.5
Nominal DC resistance	Ohms	18	420	1800	2500	11	237	1000	1600
Other specifications		DP20 to DP30, 1 and 2 poles				DP40, 2 poles			
Line and load terminals		# 10 - 32 screw				Box lug			
Wire size AWG (min - max)		16 - 8				14 - 4 Cu/Al			
Tightening torque (recommended)		25 in. lbs.				40 in. lbs.			
Coil terminals		Dual .250" QC				Dual .250" QC			
Power Terminals		1 Pole: Quad .250" QC 2 Pole: Dual or Quad .250" QC				Quad			
Covers		Optional				Dual or quad			
Insulation System		130° C class B				Standard			
						130° C class B			

## DP20 to DP60, 3 poles

Coil Technical Data		DP20 to DP40, 3 poles					DP50 to DP60, 3 poles				
Nominal coil voltage		24	120	208/240	277	480	24	120	208/240	277	480
Maximum pickup volts		18	88	177	220	384	18	88	177	220	374
Drop out volts range		6 - 15	20 - 70	40 - 140	50 - 140	150 - 270	6 - 15	20 - 70	40 - 140	50 - 185	150 - 286
Nominal inrush VA	50 Hz	65	65	65	65	65	62	62	62	62	62
Nominal inrush VA	60 Hz	60	60	60	60	60	59	59	59	59	59
Nominal closed VA	50 Hz	7.5	7.5	7.5	7.5	7.5	9	9	9	9	9
Nominal closed VA	60 Hz	6	6	6	6	6	7	7	6	7	7
Nominal DC resistance	Ohms	7	180	720	900	1320	2.4	150	600	750	1452

Other specifications	DP20 to DP30, 3 poles	DP40, 3 poles	DP50 to DP60, 3 poles
Line and load terminals	# 10 - 32 screw <sup>1</sup>	Box lug <sup>1</sup>	Box lug <sup>1</sup>
Wire size AWG (min - max)	16 - 8 <sup>2</sup>	14 - 4 Cu/Al	14 - 2 Cu/Al
Tightening torque (recommended)	22 in. lbs.	40 in. lbs.	50 in. lbs.
Quick connects (power terminals)	Dual .250 QC	Dual .250 QC	Dual .250 QC
Coil terminals	Dual .250 QC <sup>2</sup>	Dual .250 QC <sup>2</sup>	# 6 - 32 screw & dual .250 QC <sup>2</sup>
Covers	Optional	Standard	Standard
Insulation system	130° C class B	130° C class B	130° C class B

# Technical Data

## DP20 to DP40, 4 poles

Coil Technical Data	DP20 to DP40, 4 poles				
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Nominal closed VA      60 Hz	7	7	6	7	6
Nominal DC resistance      Ohms	6	148	600	750	2100
Other specifications	DP20 to DP30, 4 poles		DP40, 4 poles		
Line and load terminals	# 10 - 32 screw <sup>1</sup>		Box lug <sup>1</sup>		
Wire size AWG (min - max)	16 - 8 <sup>2</sup>		14 - 4 Cu/Al		
Tightening torque (recommended)	22 in. lbs.		40 in. lbs.		
Quick connects (power terminals)	Dual .250 QC		Dual .250 QC		
Coil terminals	Dual .250 QC <sup>2</sup>		Dual .250 QC <sup>2</sup>		
Covers	Optional		Standard		
Insulation system	130 <sup>0</sup> C class B		130 <sup>0</sup> C class B		

<sup>1</sup> See diagram on page 7 for approximate dimensions and description

<sup>2</sup> Stranding must be split for # 8 wire