

CONTROL SECTION 4

Definite purpose contactors





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Definite purpose contactors

The complete range



Applications

Type DP contactors provide high performance with flexibility and reliability, designed to match numerous applications including:

- Motors
- Power supplies
- Food service equipment
- Compressors
- Business machines
- Resistive heating
- Air conditioning
- Refrigeration equipment
- Welding

Agency approvals

- UL 508 Guide No. NLDX2, NLDX8 File # E224401
- CSA C22.2 No. 221260 (1456104) Class 3211 04 / 3211 84
- CE/Semko Certified, EN60947-4-1:2001

Features

- Available as:
 - 20 A, 25 A — 1-, 2- or 3- pole
 - 30 A — 1-, 2-, 3- or 4-pole
 - 40 A — 2-, 3- or 4-pole
 - 50 A, 60 A — 3-pole
 - 75 A, 90 A — 3-pole
- Industry standard mounting plate provides easily accessible mounting holes
- Coil terminals are provided with #6–32 screws and (1) 0.250 inch quick connect or dual 0.250 inch quick connect terminals
- Exclusive hex, slotted, Phillips #10–32 terminal screws for main terminals
- Coil is Class B (130 °C) insulation system with a wide range of voltages and 50/60 Hz ratings
- Double E magnet assembly provides optimal performance with reduced power consumption
- Snap-in auxiliary switch with 1 SPDT or 2 SPDT contacts available as an option
- 1 NO and 1 NC auxiliary contact block with 600 V AC rating available as an option
- Base assembly is made from highly arc-resistant polyester

DP 30 C 3P - 1 / B

Definite purpose

Frame size

20 = 20 A	50 = 50 A
25 = 25 A	60 = 60 A
30 = 30 A	75 = 75 A
40 = 40 A	90 = 90 A

Contactor type

C = Non-reversing

Power poles

1P = 1 NO
2P = 2 NO
3P = 3 NO
4P = 4 NO

B = Bulk pack quantities

MQC = Without quick connect

Coil voltage

F = 24 V AC
1 = 120 V AC
2 = 208/240 V AC
C = 277 V AC
4 = 480 V AC
6 = 575 V AC
80 ¹ = 12 V DC
81 ¹ = 24 V DC

¹For DC voltages, replace the standard prefix DP with the prefix DPE.

Definite purpose contactors

20 A to 90 A



Full load amps	Number of poles	Locked rotor amps			Resistive amps	Maximum HP						Standard pack qty.	Catalog number
		240 V	480 V	600 V		Single-phase		Three-phase					
						120 V	240 V	208 V	240 V	480 V	600 V		
20	1	120	100	80	30	1	2	-	-	-	-	50	DP20C1P-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
75	3	-	375	300	90	5	10	20	25	40	40	25	DP75C3P-1
90	3	-	600	480	120	7.5	20	30	25	50	50	25	DP90C3P-1

Catalog numbers in this chart include a 120 V AC coil. To select other coil voltages, use the chart to find the appropriate coil voltage. Replace the -1 above with the required coil voltage. For example, for a 208/240 V AC coil in a single-pole 20 A contactor, the catalog number would be DP20C2P-2.

Coil voltage selection chart, AC

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

Coil voltage selection chart, DC¹

Voltage	12 V DC	24 V DC
Suffix #	80	81

¹For DC coils, the prefix of the catalog number changes from DP to DPE; for example, a 12 V DC coil in a 3-pole 20 A contactor would use the catalog number DPE20C3P-80.

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Accessories



Auxiliary contact blocks for 3- and 4-pole configurations

Description	Catalog number	
	DP20 to DP40	DP50 to DP60
Form C SPDT	CADP40-10	CADP40-10
Double form C SPDT	CADP40-20	CADP40-20
Form Z SPDT (1 NO and 1 NC) ¹	CADP40-11	CADP40-11

¹Must be the same polarity on both poles.

Mechanical interlock

Application	Catalog number
DP30C3P-*	VMDP-1
DP40C3P-*	VMDP-1



Protective cover

Application	Catalog number
DP20C2P-*	DP-2-AC
DP25C2P-*	DP-2-AC
DP30C2P-*	DP-2-AC

DIN-rail mounting bracket

Application	Catalog 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