



8910DP22V09
Definite Purpose Contactor



8910DP42V14
Definite Purpose Contactor



8910DPA33V04
Definite Purpose Contactor

Table 16.223: Coil Voltage Codes

Voltage		Code Type DP, DPA
60 Hz	50 Hz	
24	24	V14
24	—	—
120	110	V02
208	—	—
208-240	220	V09
230-240	220	—
277	—	V04
480	440	V06 [1]
600	550	V07 [2]

Definite purpose contactors are ideal for heating, air conditioning, refrigeration, data processing, and food service equipment. New compact 1 and 2-Pole contactors are available along with standard size 2, 3, and 4-Pole devices.

They feature quick connect terminals and binder head screws for easy wiring. Box lugs are standard on 40 A contactors and larger. An exclusive DIN track mounting option may reduce installation costs. Coils can be changed on the Type DPA contactors (50 to 90 A) quickly without a tool. Auxiliary contact modules snap on either side of the Type DPA contactors.

- Compact Design
- Industry Standard Mounting
- Double Break Contacts
- Low Coil VA
- Straight-Through Wiring
- Low Cost

Table 16.224: Compact 1-Pole Contactors—600 Vac Maximum
(replace ●●● with the voltage code)

Full Load Amperes	Locked Rotor Amperes			Resistive Load Amperes	N.O. Poles	Type [3]
	277 V	460 V	575 V			
30	150	125	100	40	1	DP31●●●
40	240	200	160	50 (277 V max.) 40 (above 277 V)	1	DP41●●●

Table 16.225: Compact 2-Pole Contactors—600 Vac Maximum
(above 240 V, all lines must be switched) (replace ●●● with the voltage code)

Full Load Amperes	Locked Rotor Amperes			Resistive Load Amperes	N.O. Poles	Type [3]
	277 V	460 V	575 V			
30	150	125	100	40	2	DP32●●●
40	240	200	160	50	2	DP42●●●

Table 16.226: 2, 3, and 4-Pole Contactors—600 Vac Maximum
(above 240 V, all lines must be switched) (replace ●●● with the voltage code)

Full Load Amperes	Locked Rotor Amperes			Resistive Load Amperes	Horsepower Ratings				N.O. Poles	Class 8910 Type [3]
	230 V	460 V	575 V		115 V 1Ø	230 V 1Ø	230 V 3Ø	460/575 V 3Ø		
30	180	150	120	40	2	5	10	15/20	2 3 4	DPA32●●● DPA33●●● DPA34●●●
40	240	200	160	50	3	7-1/2	10	20/25	2 3 4	DPA42●●● DPA43●●● DPA44●●●
50	300	250	200	65	3	10	15	30	2 3	DPA52●●● DPA53●●●
60	360	300	240	75	5	10	25	30	2 3	DPA62●●● DPA63●●●
75	450	375	300	94	5	15	25	40	2 3	DPA72R●●● DPA73R●●●
90	540	450	360	120	7.5	20	30	50	2 3	DPA92●●● DPA93●●●

[1] Not available for Type DP11 through DP31 single-pole devices.

[2] Not available for Type DP one- and two-pole devices.

[3] Replace the three bullets (●●●) in the catalog number with the coil voltage code. Refer to the standard voltage codes listed in Table 16.223.

Table 16.227: 2 Normally Open & 2 Normally Closed

4-Pole Contactors—600 Vac Maximum
(replace ●●● with the voltage code)

Full Load (A)	Resistive Load (A)	N.O. Poles	N.C. Poles [4]	Class 8910	
				Type [5]	Form
30	40	2	2	DPA34●●●	Y392

NOTE: N.C. poles on outside. N.C. poles open before N.O. poles close.

Table 16.228: Auxiliary Contacts, 5 A, 600 Vac Rated

For Use with Class 8910, Type	Contact Arrangement	Class 9999 Type
DPA	1 N.O. 1 N.C. 1 N.O. & 1 N.C. 2 N.O.	D10 D01 D11 D20

Table 16.229: NEMA 1 General Purpose Enclosures

for Type DP, DPA Contactors

Class 8910 Type	Full Load (A)	Poles	Class 9991 Type
DP	30–40	1 & 2	DPG1
DPA	30–40	2 & 3	DPG1
DPA	50	2 & 3	DPG2
DPA	30–40	4	DPG2
DPA	60–75	2 & 3	DPG3
DPA	90	2 & 3	—

Table 16.230: Terminals

Full Load (A)	Power Terminals	
	Type of Lug [6]	Wire Range [7]
30 A	Binder Head	14–8
40 A	Box Lug or Ring	14–6
50–60 A	Tongue	14–2
75–90 A	Box Lug or Ring	14–1/0
	Tongue	

Table 16.231: Miscellaneous Parts

Description	Class 9999 Type
DIN mounting bracket attachment (Type DPA, 30–60 A)	DMB1
Type DP Series B Cover	DPC1

Table 16.232: Factory Modifications

Modification	Type	Form (add to the catalog number after the voltage code)
Factory installed auxiliary contacts	—	[8]
Pressure wire connectors (30 A)	DPA	Y122
Box lugs (30 A)	DP DPA	Y239
DIN mounting bracket attached (35 mm style), (available for 30–60 A devices only)	DP DPA	Y135
Contact cover for Type DP Series B	—	Y248
UL Listed label on device	DP	U1 [9]
Ring tongue terminals: 30–90 A 3 pole DPA contactors	DPA	RT

Types DP, DPA Application Data

Factory Modifications

Auxiliary contacts can be factory installed along with a DIN mounting bracket option. Special terminations are also available.

Table 16.233: Application Data

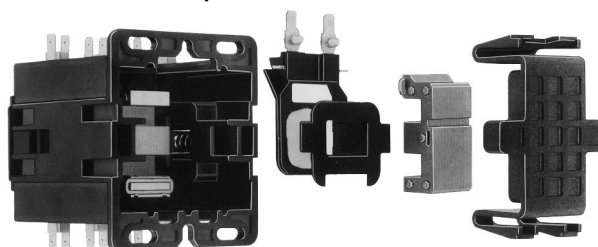
Description	Specification
Mechanical Life (depending on the application)	500,000 operations
Electrical Life (depending on the application)	100,000 operations 200,000 operations
Type DP Type DPA	
Duty Cycle	Continuous
Approvals: UL Component Recognized UL Listed (Form U1) CSA Certified DPA is CE marked	File E3190, CCN NLDX2 File E3190, CCN NLDX File LR25490, Class 321104

NOTE: See page 16-125 for replacement contacts.

Table 16.234: Type DPA Coil Voltage Codes

Voltage, 60 Hz	Voltage, 50 Hz	Voltage Code
24	24	V14
120	110	V02
208–240	220	V09
277	—	V04
480	440	V06 [10]
600	550	V07 [10]

Table 16.235: Coil Replacement



No tools required (DPA50–60A)

Table 16.236: Class 8910 Type DPA Replacement Coils
(replace ●●● with the voltage code)

Full Load (A)	Poles	Class 9998 Type [11]	Volt-Amperes [12]	
			Inrush	Sealed
50–60 A	2 & 3	DA2●●●	109	10
75–90 A	2 & 3	DA3●●●	214	19

[4] Above 240 V, all lines must be switched.

[5] Replace the three bullets (●●●) in the catalog number with the coil voltage code. Refer to the standard voltage codes in Table 16.234.

[6] For Ring Tongue, add RT after coil voltage.

[7] Solid or stranded copper wire only.

[8] Contact your local Schneider Electric sales office.

[9] Form U1, Type DPA3• and DPA4• have lighting ratings per pole: Tungsten 250 V, 60 Hz, 30 A; and Ballast 277 V, 60 Hz, 40 A.

[10] Available for Type DPA contactors only.

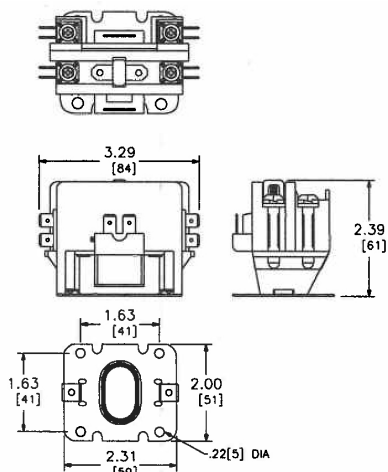
[11] Append the voltage code from Table 16.234. Example: The coil for Class 8910 Type DPA53V02, 120 V, 60 Hz is Class 9998 Type DA2V02.

[12] For Types DP11 through DP32: Inrush 30 VA; Sealed 5 VA.

Types DP, DPA Approximate Dimensions

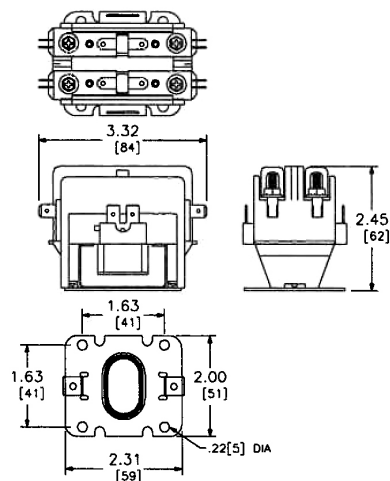
16

NEMA AND DEFINITE PURPOSE
CONTACTORS AND STARTERS



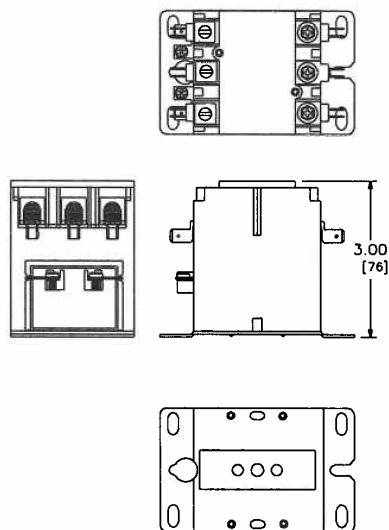
No Cover, No DIN

Type DP—1-Pole
30 through 40 Full Load Amperes



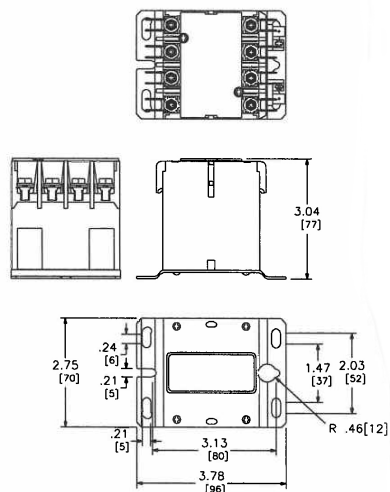
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Type DP—2-Pole
30 through 40 Full Load Amperes



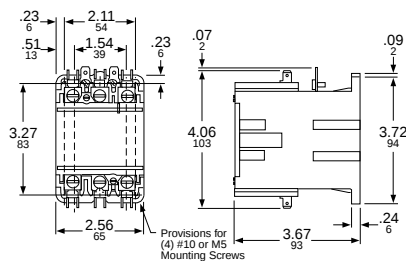
With Cover, No DIN

Type DPA—2 and 3-Pole
30 through 40 Full Load Amperes

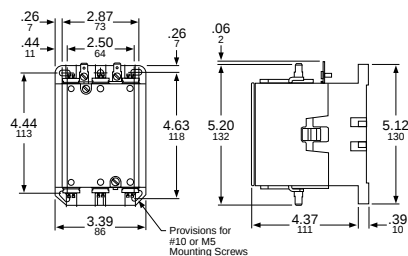


With Cover, No DIN

Type DPA—4-Pole
30 through 40 Full Load Amperes



Type DPA—2 and 3-Pole
50, 60 and 75 Full Load Amperes



Type DPA—2 and 3-Pole
90 Full Load Amperes

Dimensions: in.
mm

Class 9998 / Refer to Catalog 9999CT9701

Table 16.330 Replacement Control Transformers (200 VA)Class 8502, 8536 Type S Size 7 (cont'd.)

Voltage		Part Number
60 Hz	50 Hz	
—	380–110	3112350154
600–120	550–110	3112350151
120–120	110–110	3112350155
240–120	220–110	3112350156

Table 16.331: Magnetic Contactor and Starter Contact Kits for Obsolete Designs

Equipment To Be Serviced			No. of Poles in Kit	Class 9998 Parts Kit Type No.
Class	Type	NEMA Size		
8502 & 8536[2]	SA-, (Series A)	00	3 4	SL2 SL12
8903	LL, L (Series A, B) & LX (Series A)	20 A	4	—

Table 16.332: Class 8910, 8911 & 8965 Replacement Contact Kits

Device To Be Serviced			Class 9998	
Class 8910 Type	Class 8911 Type	Series	1-Pole Type	3-Pole Type
SYD230 SYD368	—	—	—	SL28 SL29
DPA_50A DPA_60A	DPSO5_	A, B A, B	DRC5 DRC6	—

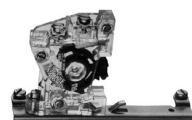
Table 16.333: How to Order

To Order Specify:	Catalog Number	
• Class Number	Class	Type
• Type Number	9998	SL6

[2] Includes reversing, two-speed, and similar devices. Select the coil based on the NEMA size of the basic starter or contactor.



Internal Auxiliary



External Single-Circuit Auxiliary Contact

Auxiliary Contacts for Manual and Magnetic Contactors and Starters

Internal Contacts

Class 9999 Type SX11 internal contact kit is a replacement unit for the N.O. holding circuit contact supplied as standard on Type S Sizes 00–2 three phase starters and contactors. The Class 9999 Type SX12 is a replacement unit for the N.C. electrical contact which is furnished as standard on Type S, Sizes 00–2 mechanically interlocked devices (e.g., Class 8736 reversing starters). Internal contacts are also used on Class 2510 Types M & T manual starters. The internal contacts can be used for other applications as long as the electrical rating is not exceeded. See Table 16.341 for electrical ratings.

External Contacts

Class 9999 Type SX6 external auxiliary contact is supplied as standard for the N.O. holding circuit contact on Type S Sizes 3–7 starters and contactors. Additional auxiliary contacts can be added to Type S contactors, starters and lighting contactors. These contacts mount on either side of the basic contactor and are available with convertible or non-convertible contacts. The contacts of the convertible version can be changed from N.O. to N.C. or vice versa in the field. The non-convertible version has fixed contacts, either N.O. or N.C.

To determine the number of auxiliary contacts that can be added to each Type S contactor or starter, refer to the Class 8536 or Class 8736 section.

See Table 16.341 for electrical ratings.

Table 16.341: Maximum Ratings for Type S Auxiliary Contacts and Timers

Class 9999 Type	Contact Ratings				Class 9999 Type	Contact Ratings			
	Volts AC	AC Only (35% Power Factor)		Continuous		Volts AC	AC Only (35% Power Factor)		Continuous
		Make	Break				Make	Break	
SX11, SX12	120 or Less	30 A	3 A	3 A	SX6-SX10 SX13-SX16	120 or Less	60 A	6 A	10 A
	120-600	3600 VA	360 VA	3 A		120-600	7200 VA	720 VA	10 A

Table 16.342: Class 8502, 8536 and 8903 Type S

For Use With		Kit Description	Ordering Information
Type	NEMA Size		Class 9999
			Type
External—Field Convertible			
SA-SJ	00–7	1-N.O. Contact 1-N.C. Contact 1-N.O. and 1-N.C. Isolated Contacts 1-N.O. Overlapping Contact 1-N.C. Overlapping Contact	SX6 SX7 SX8 — SX10 [7]
External—Non-Convertible			
SA-SJ	00–7	1-N.O. Contact 1-N.C. Contact 1-N.O. & 1 N.C. Isolated Contacts 1-N.O. Overlapping Contact 1-N.C. Overlapping Contact	SX13 SX14 — — —
Internal—Non-Convertible			
SA-SD	00–2	1-N.O. Contact 1-N.C. Contact	SX11 [8] SX12 [8]

Table 16.343: Class 8965 Reversing/Hoist Contactors—Auxiliary Contacts

Device To Be Serviced	Auxiliary Contact Kit		
Class 8965 Type	Contact Arrangement	Type of Connector	Class 9999 Type
DPR	1 N.O.	Screw/ Quick-Connect	D10
	1 N.C.		D01
	1 N.O./1 N.C.		D11
	2 N.O.		D20
RO2 & RG2 RO10 Form X1 RO11 Form X1	1 N.O. each side	Slip-on	—
RO3 & RG3 RO10 Form X2 RO11 Form X2	1 N.C. each side		—
RO5 & RG5 RO12 Form X1 RO13 Form X1	1 N.O. each side	Screw	—
RO6 & RG6 RO12 Form X2 RO13 Form X2	1 N.C. each side		—

Table 16.344: Class 8910 and 8911 Definite Purpose Contactors and Starters—Auxiliary Contacts

Device To Be Serviced	Auxiliary Contact Kit		
Class 8910 or 8911 Type	Contact Arrangement	Class 9999	
		Series B (20–90 A)	Series C (20–40 A)
DPA DPS	1 N.O.	D10	DD10
	1 N.C.	D01	DD01
	1 N.O./1 N.C.	D11	DD11
	2 N.O.	D20	DD20

Table 16.345: How to Order

To Order Specify:	Catalog Number	
• Class Number	Class	Type
• Type Number	9999	SX6

[7] Type SX10 must be used together and mounted on the same side of the contactor. They are suitable for applications where it is necessary for a normally open contact to overlap a normally closed contact.

[8] Types SX11 and SX12 are not for use on NEMA Sizes 3 or larger. Internal contacts can also be used on Class 2510 Types M and T manual starters.