

DPC series

Definite Purpose Contactor 3- or 4-pole, 20-40 FLA AC Coil

 File E75492
 File LR49598
 Certificate 811687


Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to confirm the product meets the requirements for a given application.

Features

- 3- or 4-pole contactors.
- Industry-standard mounting base or space-saving base (3-pole only).
- Optional interlock/auxiliary switches available.
- Manual test button is standard.
- Coil dust cover helps keep dust and dirt away from magnet and coil area.
- Double E magnet system provides optimal performance.

Contact Data @ 25°C

Arrangements: 3 Form X (3PST-NO-DM), 4 Form X (4PST-NO-DM),
3 Form Y (3PST-NC-DB), 4 Form Y (4PST-NC-DB).
Consult factory for mixed forms.

Maximum Ratings: See Contact Ratings Table.

Material: Silver Cadmium Oxide or Silver Tin Oxide.

Coil Data @ 25°C

Voltage: 24 - 480 VAC, 50/60 Hz. See Coil Data Table below.

Insulation Class: UL Class B (130°C).

Duty Cycle: Continuous.

Environmental Data

Temperature Range: Storage and Operating: -40°C – +65°C.

Flammability: UL 94V-0 housing.

Mechanical Data

Main Contact Termination:

Combo Screws

Type: #10-32 Combination Phillips, slotted & 5/16 hex head with #12 washer with dual 0.250" (6.35 mm) quick connects.

Wire Size: 16-8 AWG (Stranding must be split for 8 AWG wire.)

Tightening Torque: 25 in.-lbs.

Sems Screws

Type: #10-32 Sems screw with pressure plate and dual 0.250" (6.35 mm) quick connects.

Wire Size: 16-8 AWG (Stranding must be split for 8 AWG wire.)

Tightening Torque: 25 in.-lbs.

Box Lugs

Type: Box lug with dual 0.250" (6.35 mm) quick connects.

Wire Size: 14-4 Cu/Al AWG

Tightening Torque: 40 in.-lbs.

Coil Termination: Dual 0.250" (6.35 mm) quick connects, standard.

A 0.250" quick connect and a #6-32 screw, optional.

Arc Cover: Standard on all models.

Weight: 3-Pole Models: 12.7 oz. (360 g) approximately.

4-Pole Models: 15.1 oz. (430 g) approximately.

Contact Ratings

Full Load Amps	Number of Poles	Line Voltage	Locked Rotor Amps	Resistive Amps Rating	Maximum Horsepower	
					Single Phase	Three Phase
20	3 or 4	120	120	30	1.5	-
		240	120	30	-	7.5
		480	100	30	-	7.5
		600	80	30	-	7.5
			35	2	-	-
25	3 or 4	120	150	35	5	10
		240	150	35	-	15
		480	125	35	-	20
		600	100	35	-	20
			40	2	-	-
30	3 or 4	120	180	40	5	10
		240	180	40	-	15
		480	150	40	-	20
		600	120	40	-	20
			50	3	-	-
40	3 or 4	120	240	50	7.5	10
		240	240	50	-	20
		480	200	50	-	25
		600	160	50	-	25
			-	-	-	-

Coil Data

	3 Pole Models					4 Pole Models				
	24	120	208/240	277	480	24	120	208/240	277	480
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	384
Drop-Out Volts Range	6-15	20-70	40-140	65-185	150-270	6-15	20-70	40-140	65-185	150-270
Nominal Inrush VA @ 50 Hz	72	72	72	72	72	82	82	82	82	82
Nominal Inrush VA @ 60 Hz	64	64	64	64	64	73	73	73	73	73
Nominal Sealed VA @ 50 Hz	7	7	7	7	7	9	9	9	9	9
Nominal Sealed VA @ 60 Hz	6	6	6	6	6	7	7	7	7	7
Nominal DC Resistance - Ohms	5.8	147	597	837	2425	5.25	140	540	760	2195

Ordering Information

Typical Part No. >	DPC	-	3	Q	25	CS	1	X
--------------------	------------	---	----------	----------	-----------	-----------	----------	----------

1. Series:
DPC = Definite Purpose Contactor

2. Packaging:
Y = Individual Pack - = Bulk Pack

3. Number of Poles:
3 = 3 Pole 4 = 4 Pole

4. Coil Voltage (50/60 Hz.):
Q = 24VAC U = 208/240VAC H = 480VAC
T = 120VAC V = 277VAC
Other AC coil voltages to 575V available, consult factory for details

5. Contact Ratings (FLA):
20 = 20 Amps 25 = 25 Amps 30 = 30 Amps 40 = 40 Amps

6. Main Contact Termination Type:
CS = Combo Screws SS = Sems Screws BL = Box Lugs
Various terminal types may be mixed on a unit, consult factory for details.

7. Coil Termination Type:
1 = Coil terminals up (toward keyhole on base) 3 = Coil terminals up (toward keyhole on base) with #6-32 screw
2 = Coil terminals down (toward slot on base) 4 = Coil terminals down (toward slot on base) with #6-32 screw

8. Contact Form and Material:
X = Form X (ST-NO-DM), Silver Cadmium Oxide R = Form X (ST-NO-DM), Silver Tin Oxide
Y = Form Y (ST-NC-DB), Silver Cadmium Oxide H = Form Y (ST-NC-DB), Silver Tin Oxide
S = Contact forms may be mixed on a unit, consult factory for details.

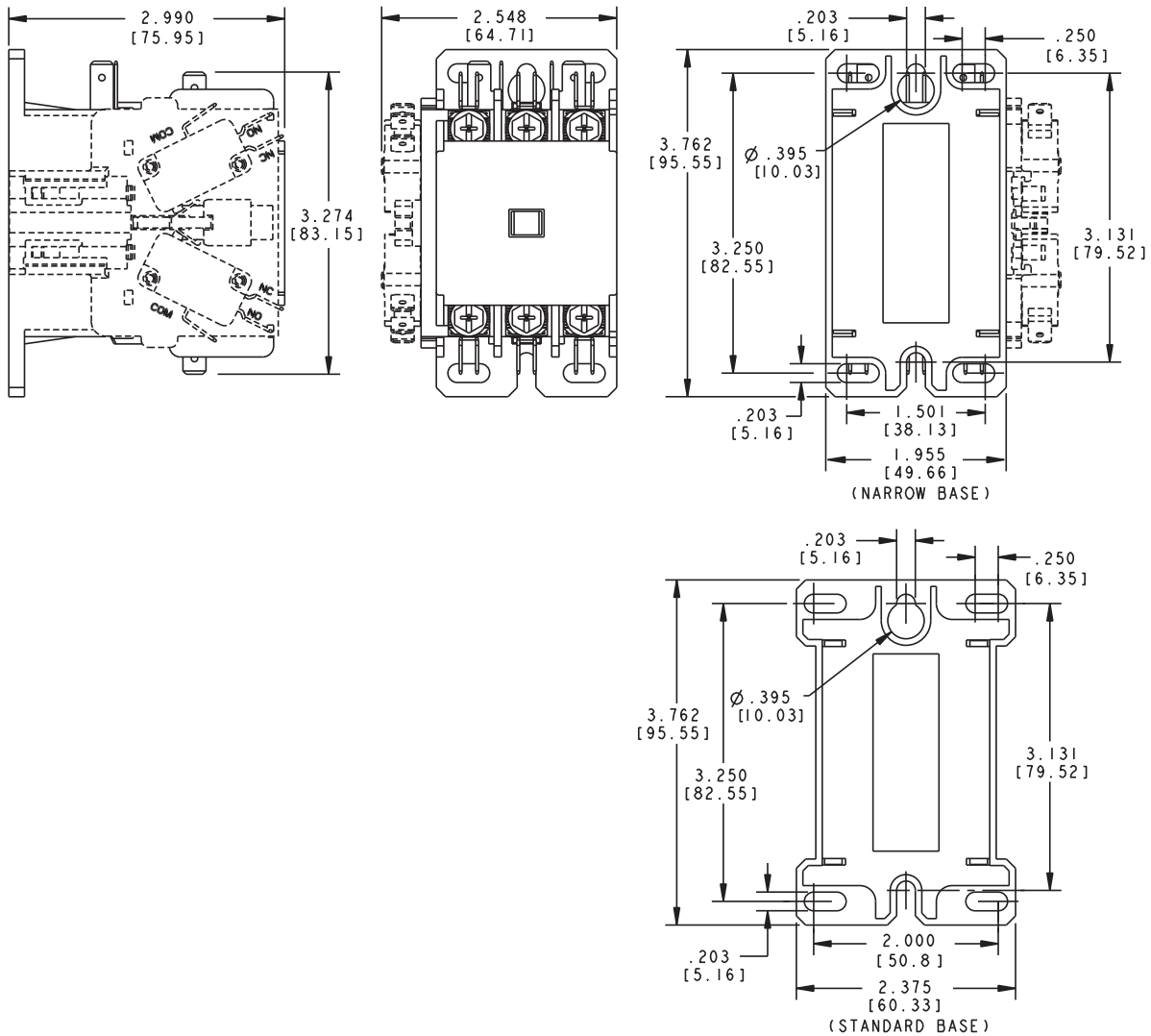
9. Customer and Option Codes:
Leave Blank = Standard part, no customer-specific options
3B = Two pole unit in a three pole base with the center pole open (must specify "3" in step 3 above)
QQC = Quad quick connects for main contact terminals (available on non-coil terminal side only)
NQC = No quick connects for main contact terminals
NB = Narrow Base (available on three pole model only)
DR = DIN rail mounting adapter
NCR = Normally closed auxiliary switch on right side
NCL = Normally closed auxiliary switch on left side
SAR = SPDT auxiliary switch on right side
SAL = SPDT auxiliary switch on left side
NONCR = Normally open/normally closed auxiliary switch on right side
NONCL = Normally open/normally closed auxiliary switch on left side
SNCR = SPDT aux. switch on left side, normally closed auxiliary switch on the right
SNCL = SPDT aux. switch on right side, normally closed auxiliary switch on the left
(3-digit numeric) = Factory-assigned customer number
Consult factory for other special requirements.

Standard part numbers listed below are more likely to be available from stock.

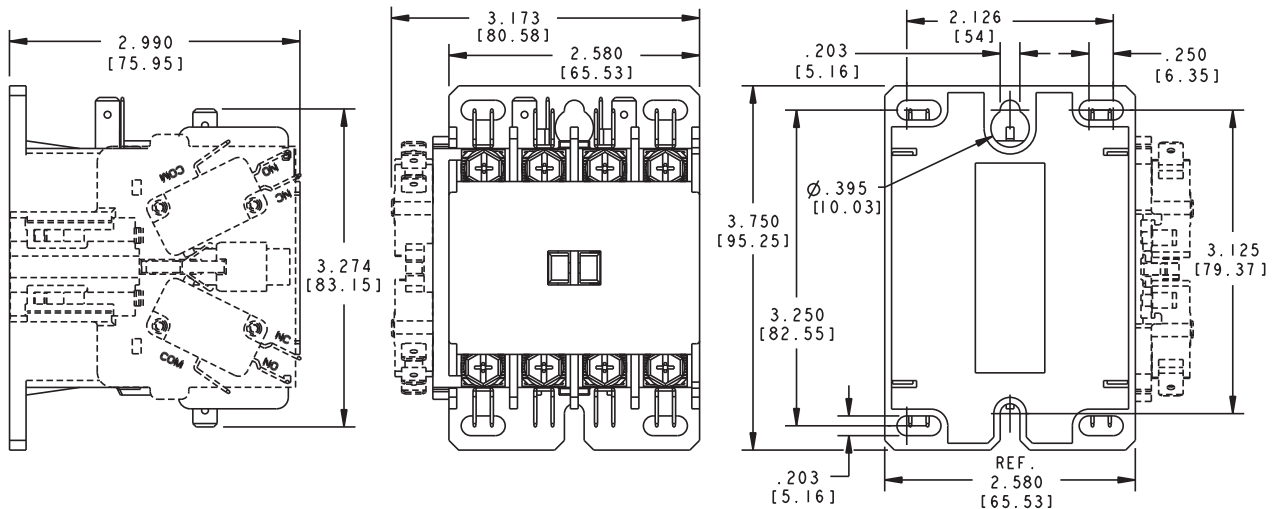
DPC-3Q20CS1X	2-1672328-4	DPC-3U30BL1X	3-1672328-6	DPC-4U25BL3X	2-1672414-9
DPC-3T20CS1X	2-1672328-5	DPC-3U30SS1X	3-1672328-9	DPC-4Q30BL3X	1672329-5
DPC-3U20CS1X	2-1672328-9	DPC-3V30CS1X	3-1672328-2	DPC-4U30CS3X	2-1672414-8
DPC-3Q25CS1X	1672328-4	DPC-3H30CS1X	3-1672328-3	DPC-4U40BL1X	1672329-4
DPC-3T25CS1X	2-1672328-6	DPC-3Q40BL1X	2-1672328-1		
DPC-3T25CS1X-NQC	2-1672328-7	DPC-3Q40BL2X-NQC	5-1672328-2		
DPC-3U25CS1X	3-1672328-0	DPC-3Q40BL3X	5-1672328-1		
DPC-3Q30BL1X	1672328-6	DPC-3Q40CS1X	1672128-3		
DPC-3Q30CS1X	1672328-2	DPC-3Q40SS1X	5-1672328-0		
DPC-3Q30CS1X	1672328-2	DPC-3T40BL1X	1672328-5		
DPC-3Q30SS1X	3-1672328-7	DPC-3T40BL3X	5-1672328-3		
DPC-3T30BL1X	3-1672328-4	DPC-3T40CS1X	2-1672328-3		
DPC-3T30BL2X	3-1672328-5	DPC-3U40BL1X	5-1672328-5		
DPC-3T30CS1X	2-1672328-8	DPC-3U40BL3X	2-1672328-2		
DPC-3T30SS1X	3-1672328-8	DPC-3U40SS1X	5-1672328-4		
DPC-3U30CS1X	3-1672328-1	DPC-3H40BL1X	5-1672328-6		

Outline Dimensions

THREE POLE MODELS



FOUR POLE MODELS



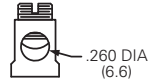
Main Contact Termination Options



Combo Screws
#10-32 Combination
Phillips, Slotted &
5/16 Hex Head
#12 Washer



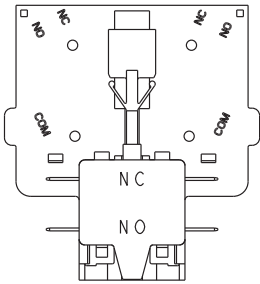
Sems Screws
#10-32 Sems Screw
with Pressure Plate



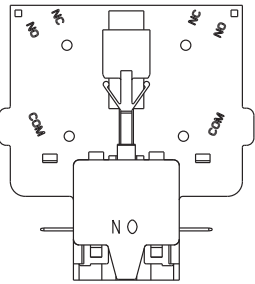
Box Lugs
Lug accepts 14-4
Cu/Al AWG

Auxiliary Switches

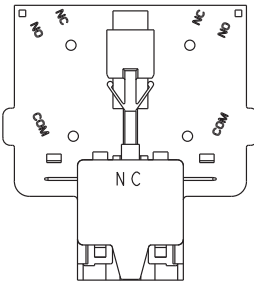
Various interlock / auxiliary switches are available for the DPC series contactor. All auxiliary switches for the DPC are snap-on design, no tools required.



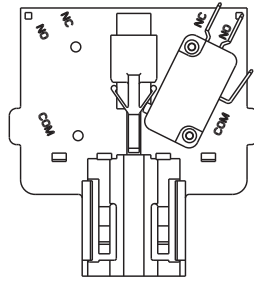
1 NO / 1 NC
(1672419-1)



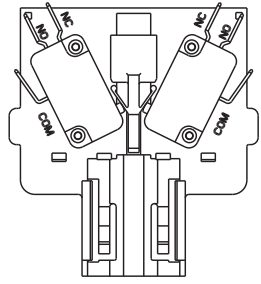
1 NO
(1672419-2)



1 NC
(1672419-3)



**ONE SPDT
SWITCH
PER SIDE**
(1672418-1
or 1672418-3)



**TWO SPDT
SWITCHES
PER SIDE**
(1672418-2
or 1672418-4)

Auxiliary Switches Equipped with 0.250" (6.35) Quick Connect Terminals

Description	Factory Modifications		Field Added Kits	
	Contact Config. NO	Contact Config. NC	Kit Catalog Number	Number of Kits Required
Single unit interlock configurations listed. Maximum of two. (One on each side.)	1	1	1672419-1	1
	1	0	1672419-2	1
	0	1	1672419-3	1
	2	2	1672419-1	2
See footnote (1) for ratings.	2	0	1672419-2	2
	0	2	1672419-3	2
SPDT Circuit (Either one or two switches per side.) See footnote (2) for ratings.	1	1	1672418-1	1
	2	2	1672418-2	1
	2	2	1672418-1	2
	4	4	1672418-2	2
SPDT Dry Circuit 0.1 amp max. Gold Flashed Contacts	1	1	1672418-3	1
	2	2	1672418-4	1
	4	4	1672418-4	2

Footnotes: Ratings of Auxiliary Interlocks / Switches

(1) Contact Rating Single Circuit NO or NC and two circuit NO/NC:

	120V	240V	480V	600V
Amperes - Break	3.0	1.5	0.75	0.6
Amperes - Make	30	15	7.5	6
Amperes - Continuous	10	10	10	10

(2) Contact Rating SPDT (1672418-1 or -2):

10A, 1/3 HP, 125 or 250 VAC
1/2A, 125 VDC; 1/4A, 250 VDC
4A 120 VAC on Lamp Load