DPC series

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

File E75492
File LR49598
EN 60947-1:2007, EN 60947-4-1:2010

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). Consult factory for mixed forms.
Maximum Ratings: See Contact Ratings Table.
Material: Silver Cadmium 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.

SEMKO

Ui = 600V, Uimp = 6kV
Material Group IIIa, Pollution Degree 3
Short Circuit: 3kA
Short-Circuit Protection, max. fuse: 50A gG, U ≤ 690V.

Environmental Data

Temperature Range: Storage and Operating: -40°C – +65°C.
Flammability: UL 94V-0 housing.

Mechanical Data

Main Contact Termination
[with dual 0.250 (6.35) quick connects – standard; without quick connects – optional]:

Combo Screws
Type: #10-32 Combination Phillips, slotted & 5/16 hex head with #12 washer.
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.
Wire Size: 16-8 AWG (Stranding must be split for 8 AWG wire.)
Tightening Torque: 25 in.-lbs.

Box Lugs
Type: Box lug.
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.

Contact Ratings

Full Load Amps & AC3	Number of Poles	Line Voltage	Locked Rotor Amps	Resistive Amps Rating & AC1	Maximum Horsepower		UL Short Circuit Ratings	UL AC Electrical Discharge Lamps (Standard Ballast) and AC Incandescent Lamps (Tungsten)
					Single Phase	Three Phase		
20	3 or 4	120	120	30	1.5	–	Standard fault: 5kA @ 600VAC 80A max. fuse. High fault: 100kA @ 600VAC 60A max. Class J fuse	28A, 480V per pole 1 or 3 poles
		240	120	30	3	7.5		
		480	100	30	–	7.5		
		600	80	30	–	7.5		
25	3 or 4	120	150	35	2	–		
		240	150	35	5	10		
		480	125	35	–	15		
		600	100	35	–	20		
30	3 or 4	120	180	40	2	–		
		240	180	40	5	10		
		480	150	40	–	15		
		600	120	40	–	20		
40	3 or 4	120	240	50	3	–	Standard fault: 5kA @ 600VAC 125A max. fuse. High fault: 100kA @ 600VAC 100A max. Class J fuse	35A, 480V per pole, 1 or 3 poles
		240	240	50	7.5	10		
		480	200	50	–	20		
		600	160	50	–	25		

Coil Data

	3 Pole Models					4 Pole Models				
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

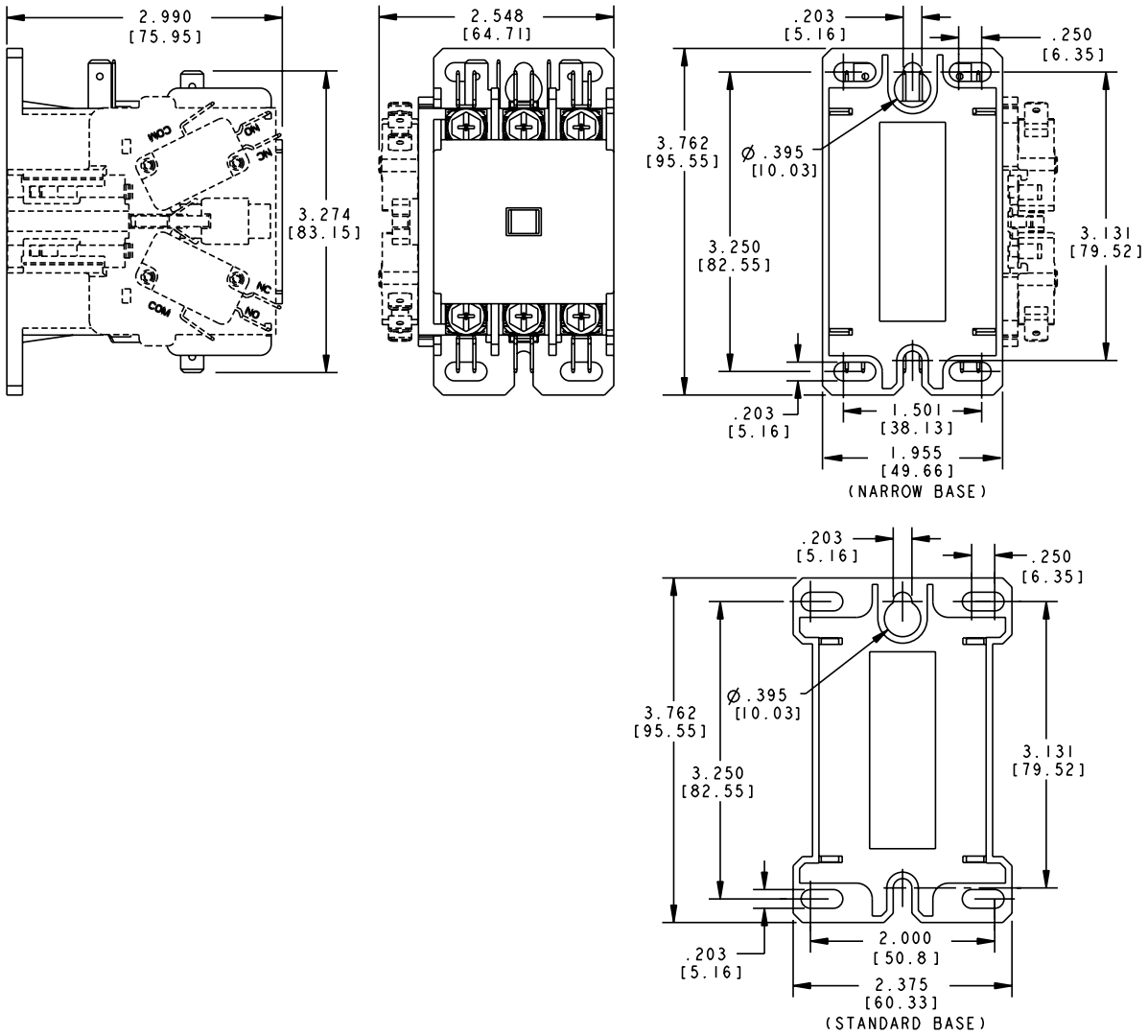
9. Customer and Option Codes:
Leave Blank = Standard part, no customer-specific options
3B = Two pole unit in a three pole base with the center pole open (must specify "3" in step 3 above)
QQC = Quad quick connects for main contact terminals (available on non-coil terminal side only)
NQC = No quick connects 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.

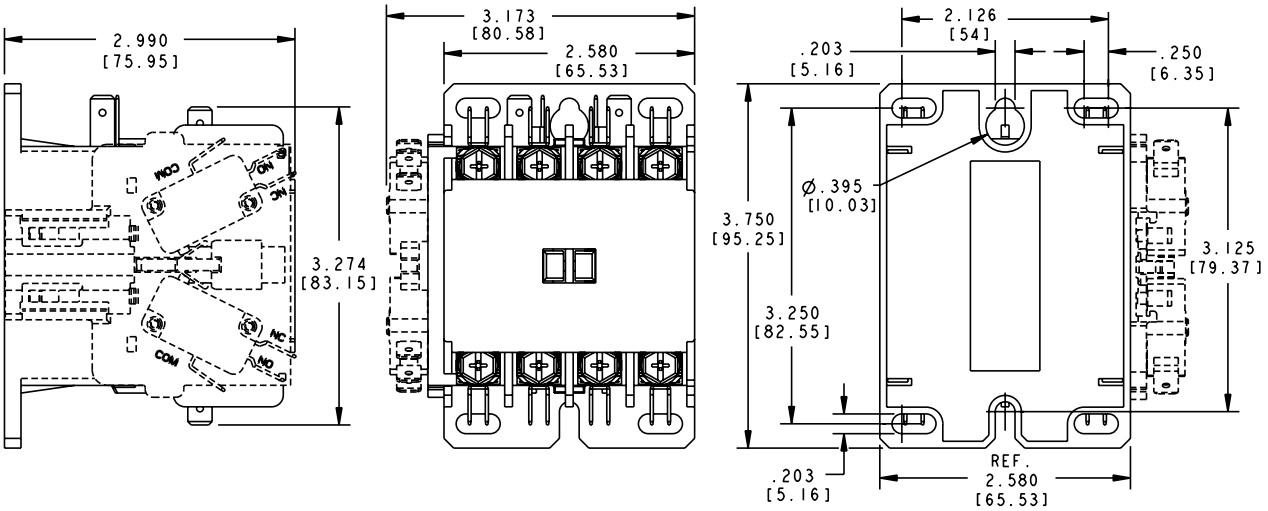
DPC-3Q20CS1X	2-1672328-4	DPC-3U30BL1X	3-1672328-6	DPC-4U25BL3X	2-1672414-9
DPC-3T20CS1X	2-1672328-5	DPC-3U30SS1X	3-1672328-9	DPC-4Q30BL3X	1672329-5
DPC-3U20CS1X	2-1672328-9	DPC-3V30CS1X	3-1672328-2	DPC-4U30CS3X	2-1672414-8
DPC-3Q25CS1X	1672328-4	DPC-3H30CS1X	3-1672328-3	DPC-4U40BL1X	1672329-4
DPC-3T25CS1X	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

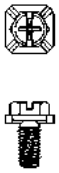


FOUR POLE MODELS

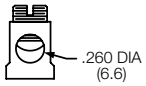


Main Contact Termination Options

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



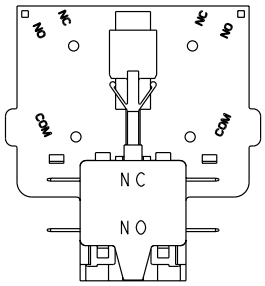
Sems Screws
#10-32 Sems Screw
with Pressure Plate



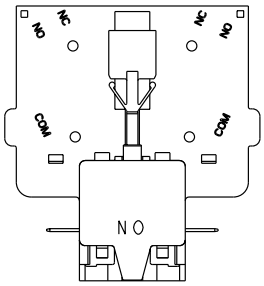
Box Lugs
Lug accepts 14-4
Cu/Al AWG

Auxiliary Switches

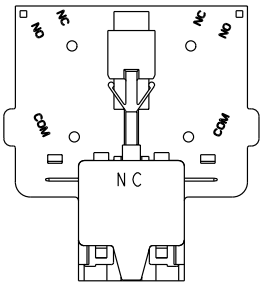
Various interlock / auxiliary switches are available for the DPC series contactor. All auxiliary switches for the DPC are snap-on design, no tools required.



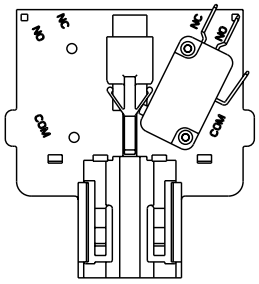
1 NO / 1 NC
(1672419-1)
MUST BE SAME POLARITY



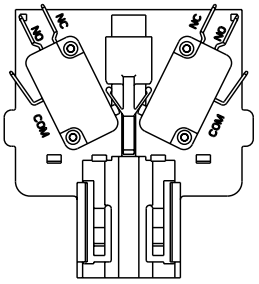
1 NO
(1672419-2)



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

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

Footnotes: Ratings of Auxiliary Interlocks / Switches

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

MUST BE SAME POLARITY	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

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