



# 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

U<sub>i</sub> = 600V, U<sub>imp</sub> = 6kV  
Material Group IIIa, Pollution Degree 3  
Short Circuit: 3kA  
Short-Circuit Protection, max. fuse: 50A gG, U ≤ 690V.

### 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<br>80A max. fuse.<br>High fault: 100kA @ 600VAC<br>60A max. Class J fuse   | 28A, 480V per pole<br>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                  | -           | Standard fault: 5kA @ 600VAC<br>90A max. fuse.<br>High fault: 100kA @ 600VAC<br>60A max. Class J fuse   | 28A, 480V per pole<br>1 or 3 poles   |
|                      |                 | 240          | 150               | 35                          | 5                  | 10          |   |  |
|                      |                 | 480          | 125               | 35                          | -                  | 15          |   |  |
|                      |                 | 600          | 100               | 35                          | -                  | 20          |   |  |
| 30                   | 3 or 4          | 120          | 180               | 40                          | 2                  | -           | Standard fault: 5kA @ 600VAC<br>90A max. fuse.<br>High fault: 100kA @ 600VAC<br>60A max. Class J fuse   | 35A, 480V per pole<br>1 or 3 poles   |
|                      |                 | 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<br>125A max. fuse.<br>High fault: 100kA @ 600VAC<br>100A max. Class J fuse | 35A, 480V per pole<br>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 |         |          |          |           |
|------------------------------|---------------|---------|----------|----------|-----------|---------------|---------|----------|----------|-----------|
|                              | 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**

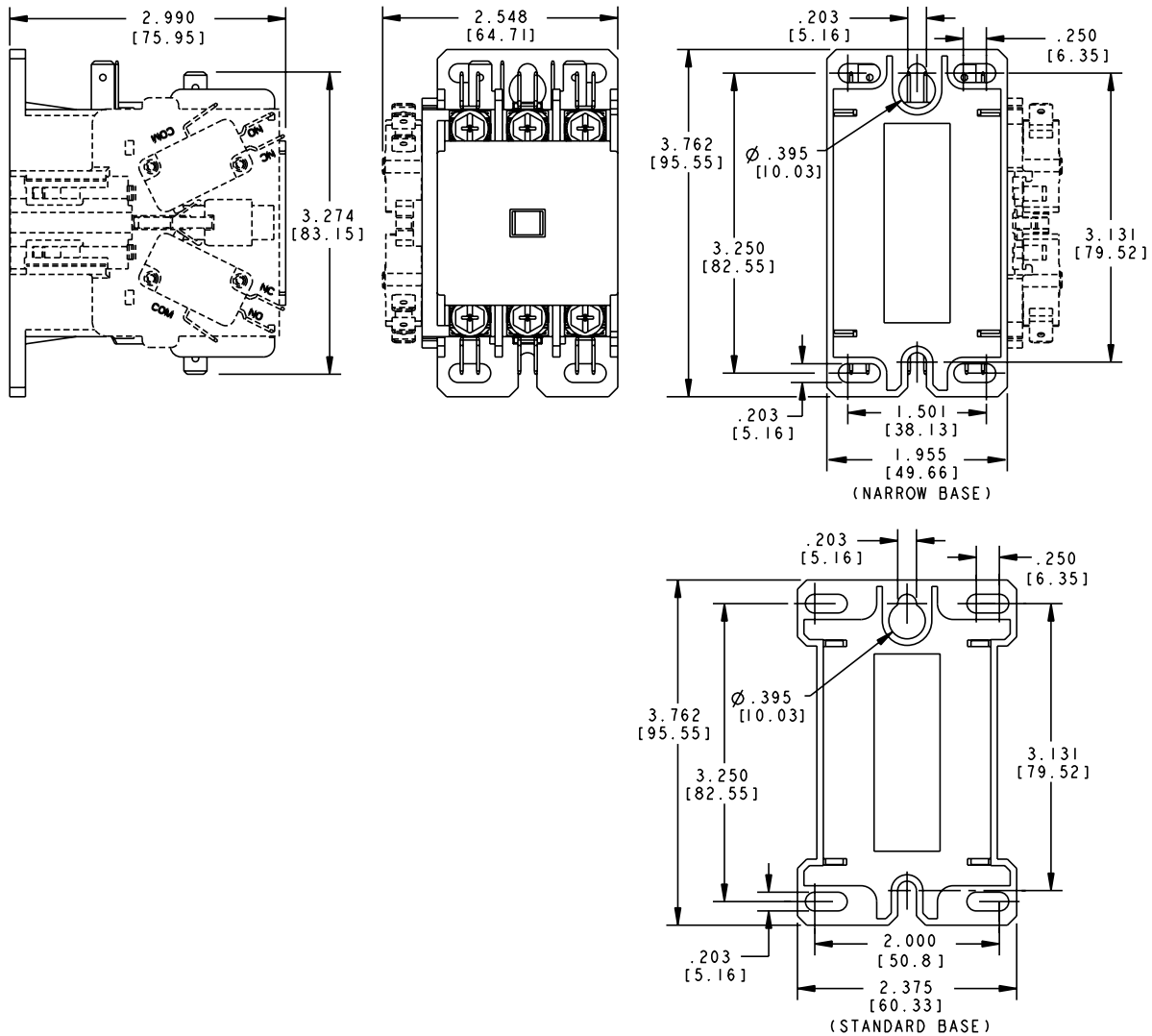
|  |            |   |          |          |           |           |          |          |  |
|--|------------|---|----------|----------|-----------|-----------|----------|----------|--|
| Typical Part No. >   | <b>DPC</b> | - | <b>3</b> | <b>Q</b> | <b>25</b> | <b>CS</b> | <b>1</b> | <b>X</b> |  |
| <p><b>1. Series:</b><br/>DPC = Definite Purpose Contactor</p> <p><b>2. Packaging:</b><br/>Y = Individual Pack      - = Bulk Pack</p> <p><b>3. Number of Poles:</b><br/>3 = 3 Pole      4 = 4 Pole</p> <p><b>4. Coil Voltage (50/60 Hz.):</b><br/>Q = 24VAC    U = 208/240VAC    H = 480VAC<br/>T = 120VAC    V = 277VAC<br/>Other AC coil voltages to 575V available, consult factory for details</p> <p><b>5. Contact Ratings (FLA):</b><br/>20 = 20 Amps    25 = 25 Amps    30 = 30 Amps    40 = 40 Amps</p> <p><b>6. Main Contact Termination Type:</b><br/>CS = Combo Screws      SS = Sems Screws      BL = Box Lugs<br/>Various terminal types may be mixed on a unit, consult factory for details.</p> <p><b>7. Coil Termination Type:</b><br/>1 = Coil terminals up (toward keyhole on base)      3 = Coil terminals up (toward keyhole on base) with #6-32 screw<br/>2 = Coil terminals down (toward slot on base)      4 = Coil terminals down (toward slot on base) with #6-32 screw</p> <p><b>8. Contact Form and Material:</b><br/>X = Form X (ST-NO-DM), Silver Cadmium Oxide</p> <p><b>9. Customer and Option Codes:</b><br/>Leave Blank = Standard part, no customer-specific options<br/>3B = Two pole unit in a three pole base with the center pole open (must specify "3" in step 3 above)<br/>QQC = Quad quick connects for main contact terminals (available on non-coil terminal side only)<br/>NQC = No quick connects for main contact terminals<br/>NB = Narrow Base (available on three pole model only)<br/>DR = DIN rail mounting adapter<br/>NCR = Normally closed auxiliary switch on right side<br/>NCL = Normally closed auxiliary switch on left side<br/>SAR = SPDT auxiliary switch on right side<br/>SAL = SPDT auxiliary switch on left side<br/>NONCR = Normally open/normally closed auxiliary switch on right side<br/>NONCL = Normally open/normally closed auxiliary switch on left side<br/>SNCR = SPDT aux. switch on left side, normally closed auxiliary switch on the right<br/>SNCL = SPDT aux. switch on right side, normally closed auxiliary switch on the left<br/>### (3-digit numeric) = Factory-assigned customer number<br/>Consult factory for other special requirements.</p> |            |   |          |          |           |           |          |          |  |

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

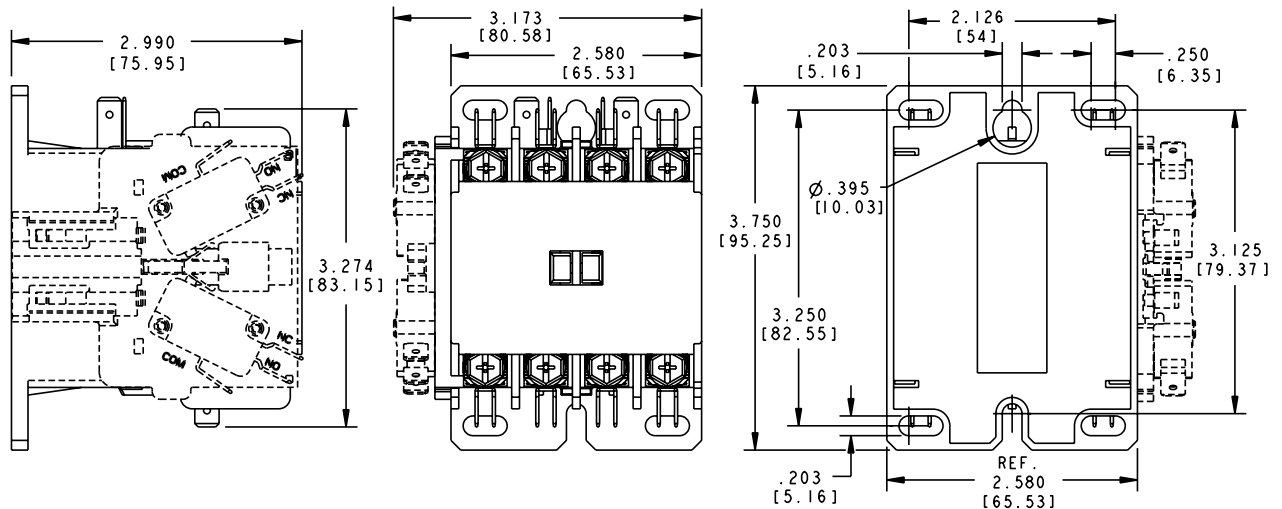
|                  |             |                  |             |              |             |
|------------------|-------------|------------------|-------------|--------------|-------------|
| DPC-3Q20CS1X     | 2-1672328-4 | DPC-3U30BL1X     | 3-1672328-6 | DPC-4U25BL3X | 2-1672414-9 |
| DPC-3T20CS1X     | 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



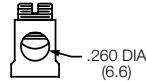
**Main Contact Termination Options**



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



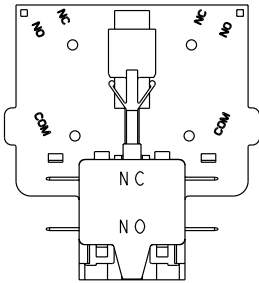
**Sems Screws**  
#10-32 Sems Screw  
with Pressure Plate



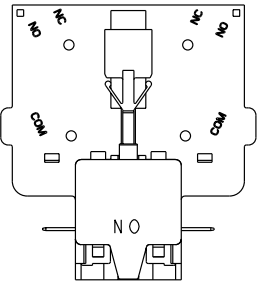
**Box Lugs**  
Lug accepts 14-4  
Cu/Al AWG

**Auxiliary Switches**

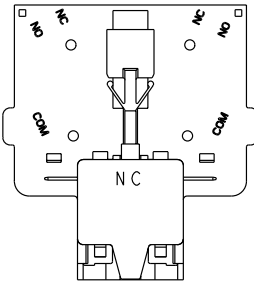
Various interlock / auxiliary switches are available for the DPC series contactor. All auxiliary switches for the DPC are snap-on design, no tools required.



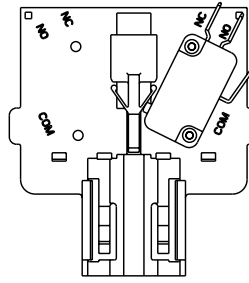
**1 NO / 1 NC**  
**(1672419-1)**  
**MUST BE SAME POLARITY**



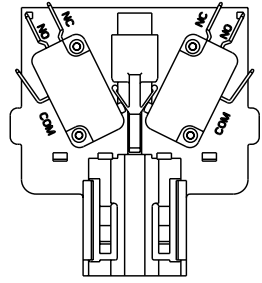
**1 NO**  
**(1672419-2)**



**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**

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