

Definite purpose contactors

20 A to 60 A



| Full Load Amps | Number of Poles | Locked Rotor Amps | | | Resistive Amps | Maximum HP | | | | | | Standard Pack Qty | Catalog Number |
|----------------|-----------------|-------------------|------|------|----------------|--------------|------|-------------|------|------|------|-------------------|----------------|
| | | 240V | 480V | 600V | | Single Phase | | Three Phase | | | | | |
| | | | | | | 120V | 240V | 208V | 240V | 480V | 600V | | |
| 20 | 1 | 120 | 100 | 80 | 30 | 1 | 2 | - | - | - | - | 50 | DP20C2P-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 |

Coil Voltage Selection Chart

| Voltage | 24VAC | 120VAC | 208/240VAC | 277VAC | 480VAC | 575VAC |
|----------|-------|--------|------------|--------|--------|--------|
| Suffix # | F | 1 | 2 | C | 4 | 6 |

All catalog numbers include a 120VAC coil.

To select other coil voltages, substitute the code from the coil voltage selection chart for the first digit after the dash in the catalog number.

Definite purpose contactors

Accessories

Auxiliary Contact Blocks

| Description | DP20 to DP40, 3 pole and 4 pole configurations | DP50 to DP60 |
|---------------------------|--|--------------|
| Form C SPDT | CADP40-10 | CADP40-10 |
| Double Form C SPDT | CADP40-20 | CADP40-20 |
| Form Z SPDT (1NO & 1NC)** | CADP40-11 | CADP40-11 |

** Must be the same polarity on both poles. For a complete description on contact types, please refer to page 7.



Mechanical Interlock

| Application | Part Number |
|-------------|-------------|
| DP30C3P-* | VMDP-1 |
| DP40C3P-* | VMDP-1 |

Protective Cover

| Application | Part Number |
|-------------|-------------|
| DP20C2P-* | DP-2-AC |
| DP25C2P-* | DP-2-AC |
| DP30C2P-* | DP-2-AC |



Din-Rail Mounting Bracket

| Application | Part 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

Technical Data

Contact rating of SPDT auxiliary contacts

| Voltage | Current rating |
|---------|------------------|
| 125 VAC | 10 A, 1/3 HP |
| 120 VAC | 4 A on lamp load |
| 250 VAC | 10 A, 1/3 HP |
| 125 VDC | 0.5 A |
| 250 VDC | 0.25 A |

Contact rating of 1 N.O. & 1 N.C. auxiliary contacts

| | 120V | 240V | 480V | 600V |
|----------------|------|------|------|------|
| Break (A) | 3.0 | 1.5 | 0.75 | 0.6 |
| Make (A) | 30 | 15 | 7.5 | 6 |
| Continuous (A) | 10 | 10 | 10 | 10 |

DP20 to DP40, 1 & 2 poles

| Coil Technical Data | | DP20 to DP30, 1 pole | | | | DP20 to DP40, 2 poles | | | |
|---------------------------------|-------|--|---------|----------|----------|-----------------------|---------|----------|----------|
| Nominal coil voltage | | 24 | 120 | 208/240 | 277 | 24 | 120 | 208/240 | 277 |
| Maximum pickup volts | | 18 | 88 | 177 | 221 | 18 | 88 | 177 | 221 |
| Drop out volts range | | 6 - 15 | 20 - 70 | 40 - 140 | 50 - 165 | 6 - 15 | 20 - 70 | 40 - 170 | 50 - 165 |
| Nominal inrush VA | 50 Hz | 31 | 31 | 31 | 31 | 33 | 33 | 33 | 33 |
| Nominal inrush VA | 60 Hz | 28 | 28 | 28 | 28 | 30 | 30 | 30 | 30 |
| Nominal closed VA | 50 Hz | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 |
| Nominal closed VA | 60 Hz | 5 | 5 | 5 | 5 | 6.5 | 6.5 | 6.5 | 6.5 |
| Nominal DC resistance | Ohms | 18 | 420 | 1800 | 2500 | 11 | 237 | 1000 | 1600 |
| Other specifications | | DP20 to DP30, 1 and 2 poles | | | | DP40, 2 poles | | | |
| Line and load terminals | | # 10 - 32 screw | | | | Box lug | | | |
| Wire size AWG (min - max) | | 16 - 8 | | | | 14 - 4 Cu/Al | | | |
| Tightening torque (recommended) | | 25 in. lbs. | | | | 40 in. lbs. | | | |
| Coil terminals | | Dual .250" QC | | | | Dual .250" QC | | | |
| Power Terminals | | 1 Pole: Quad .250" QC 2 Pole: Dual or Quad .250" QC | | | | Quad Dual or quad | | | |
| Covers | | Optional | | | | Standard | | | |
| Insulation System | | 130° C class B | | | | 130° C class B | | | |

DP20 to DP60, 3 poles

| Coil Technical Data | | DP20 to DP40, 3 poles | | | | | DP50 to DP60, 3 poles | | | | |
|-----------------------|-------|-----------------------|---------|----------|----------|-----------|-----------------------|---------|----------|----------|-----------|
| 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 | 374 |
| Drop out volts range | | 6 - 15 | 20 - 70 | 40 - 140 | 50 - 140 | 150 - 270 | 6 - 15 | 20 - 70 | 40 - 140 | 50 - 185 | 150 - 286 |
| Nominal inrush VA | 50 Hz | 65 | 65 | 65 | 65 | 65 | 62 | 62 | 62 | 62 | 62 |
| Nominal inrush VA | 60 Hz | 60 | 60 | 60 | 60 | 60 | 59 | 59 | 59 | 59 | 59 |
| Nominal closed VA | 50 Hz | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 9 | 9 | 9 | 9 | 9 |
| Nominal closed VA | 60 Hz | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 7 |
| Nominal DC resistance | Ohms | 7 | 180 | 720 | 900 | 1320 | 2.4 | 150 | 600 | 750 | 1452 |

| Other specifications | DP20 to DP30, 3 poles | DP40, 3 poles | DP50 to DP60, 3 poles |
|----------------------------------|------------------------------|---------------------------|--|
| Line and load terminals | # 10 - 32 screw ¹ | Box lug ¹ | Box lug ¹ |
| Wire size AWG (min - max) | 16 - 8 ² | 14 - 4 Cu/Al | 14 - 2 Cu/Al |
| Tightening torque (recommended) | 22 in. lbs. | 40 in. lbs. | 50 in. lbs. |
| Quick connects (power terminals) | Dual .250 QC | Dual .250 QC | Dual .250 QC |
| Coil terminals | Dual .250 QC ² | Dual .250 QC ² | # 6 - 32 screw & dual .250 QC ² |
| Covers | Optional | Standard | Standard |
| Insulation system | 130° C class B | 130° C class B | 130° C class B |

Technical Data

DP20 to DP40, 4 poles

| Coil Technical Data | DP20 to DP40, 4 poles | | | | |
|----------------------------------|------------------------------|---------|----------------------------|----------|-----------|
| Nominal coil voltage | 24 | 120 | 208/240 | 277 | 480 |
| Maximum pickup volts | 18 | 88 | 177 | 220 | 384 |
| Drop out volts range | 6 - 15 | 20 - 70 | 40 - 140 | 65 - 185 | 150 - 270 |
| Nominal inrush VA 50 Hz | 62 | 62 | 62 | 62 | 62 |
| Nominal inrush VA 60 Hz | 59 | 59 | 59 | 59 | 59 |
| Nominal closed VA 50 Hz | 9 | 9 | 9 | 9 | 9 |
| Nominal closed VA 60 Hz | 7 | 7 | 6 | 7 | 6 |
| Nominal DC resistance Ohms | 6 | 148 | 600 | 750 | 2100 |
| Other specifications | DP20 to DP30, 4 poles | | DP40, 4 poles | | |
| Line and load terminals | # 10 - 32 screw ¹ | | Box lug ¹ | | |
| Wire size AWG (min - max) | 16 - 8 ² | | 14 - 4 Cu/Al | | |
| Tightening torque (recommended) | 22 in. lbs. | | 40 in. lbs. | | |
| Quick connects (power terminals) | Dual .250 QC | | Dual .250 QC | | |
| Coil terminals | Dual .250 QC ² | | Dual .250 QC ² | | |
| Covers | Optional | | Standard | | |
| Insulation system | 130 ⁰ C class B | | 130 ⁰ C class B | | |

¹ See diagram on page 7 for approximate dimensions and description

² Stranding must be split for # 8 wire

Definite purpose contactors

20 A to 60 A



| Full Load Amps | Number of Poles | Locked Rotor Amps | | | Resistive Amps | Maximum HP | | | | | | Standard Pack Qty | Catalog Number |
|----------------|-----------------|-------------------|------|------|----------------|--------------|------|-------------|------|------|------|-------------------|----------------|
| | | 240V | 480V | 600V | | Single Phase | | Three Phase | | | | | |
| | | | | | | 120V | 240V | 208V | 240V | 480V | 600V | | |
| 20 | 1 | 120 | 100 | 80 | 30 | 1 | 2 | - | - | - | - | 50 | DP20C2P-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 |

Coil Voltage Selection Chart

| Voltage | 24VAC | 120VAC | 208/240VAC | 277VAC | 480VAC | 575VAC |
|----------|-------|--------|------------|--------|--------|--------|
| Suffix # | F | 1 | 2 | C | 4 | 6 |

All catalog numbers include a 120VAC coil.

To select other coil voltages, substitute the code from the coil voltage selection chart for the first digit after the dash in the catalog number.

Definite purpose contactors

Accessories

Auxiliary Contact Blocks

| Description | DP20 to DP40, 3 pole and 4 pole configurations | DP50 to DP60 |
|---------------------------|--|--------------|
| Form C SPDT | CADP40-10 | CADP40-10 |
| Double Form C SPDT | CADP40-20 | CADP40-20 |
| Form Z SPDT (1NO & 1NC)** | CADP40-11 | CADP40-11 |

** Must be the same polarity on both poles. For a complete description on contact types, please refer to page 7.



Mechanical Interlock

| Application | Part Number |
|-------------|-------------|
| DP30C3P-* | VMDP-1 |
| DP40C3P-* | VMDP-1 |

Protective Cover

| Application | Part Number |
|-------------|-------------|
| DP20C2P-* | DP-2-AC |
| DP25C2P-* | DP-2-AC |
| DP30C2P-* | DP-2-AC |



Din-Rail Mounting Bracket

| Application | Part 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

Technical Data

Contact rating of SPDT auxiliary contacts

| Voltage | Current rating |
|---------|------------------|
| 125 VAC | 10 A, 1/3 HP |
| 120 VAC | 4 A on lamp load |
| 250 VAC | 10 A, 1/3 HP |
| 125 VDC | 0.5 A |
| 250 VDC | 0.25 A |

Contact rating of 1 N.O. & 1 N.C. auxiliary contacts

| | 120V | 240V | 480V | 600V |
|----------------|------|------|------|------|
| Break (A) | 3.0 | 1.5 | 0.75 | 0.6 |
| Make (A) | 30 | 15 | 7.5 | 6 |
| Continuous (A) | 10 | 10 | 10 | 10 |

DP20 to DP40, 1 & 2 poles

| Coil Technical Data | | DP20 to DP30, 1 pole | | | | DP20 to DP40, 2 poles | | | |
|---------------------------------|-------|--|---------|----------|----------|-----------------------|---------|----------|----------|
| Nominal coil voltage | | 24 | 120 | 208/240 | 277 | 24 | 120 | 208/240 | 277 |
| Maximum pickup volts | | 18 | 88 | 177 | 221 | 18 | 88 | 177 | 221 |
| Drop out volts range | | 6 - 15 | 20 - 70 | 40 - 140 | 50 - 165 | 6 - 15 | 20 - 70 | 40 - 170 | 50 - 165 |
| Nominal inrush VA | 50 Hz | 31 | 31 | 31 | 31 | 33 | 33 | 33 | 33 |
| Nominal inrush VA | 60 Hz | 28 | 28 | 28 | 28 | 30 | 30 | 30 | 30 |
| Nominal closed VA | 50 Hz | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 |
| Nominal closed VA | 60 Hz | 5 | 5 | 5 | 5 | 6.5 | 6.5 | 6.5 | 6.5 |
| Nominal DC resistance | Ohms | 18 | 420 | 1800 | 2500 | 11 | 237 | 1000 | 1600 |
| Other specifications | | DP20 to DP30, 1 and 2 poles | | | | DP40, 2 poles | | | |
| Line and load terminals | | # 10 - 32 screw | | | | Box lug | | | |
| Wire size AWG (min - max) | | 16 - 8 | | | | 14 - 4 Cu/Al | | | |
| Tightening torque (recommended) | | 25 in. lbs. | | | | 40 in. lbs. | | | |
| Coil terminals | | Dual .250" QC | | | | Dual .250" QC | | | |
| Power Terminals | | 1 Pole: Quad .250" QC 2 Pole: Dual or Quad .250" QC | | | | Quad Dual or quad | | | |
| Covers | | Optional | | | | Standard | | | |
| Insulation System | | 130° C class B | | | | 130° C class B | | | |

DP20 to DP60, 3 poles

| Coil Technical Data | | DP20 to DP40, 3 poles | | | | | DP50 to DP60, 3 poles | | | | |
|-----------------------|-------|-----------------------|---------|----------|----------|-----------|-----------------------|---------|----------|----------|-----------|
| 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 | 374 |
| Drop out volts range | | 6 - 15 | 20 - 70 | 40 - 140 | 50 - 140 | 150 - 270 | 6 - 15 | 20 - 70 | 40 - 140 | 50 - 185 | 150 - 286 |
| Nominal inrush VA | 50 Hz | 65 | 65 | 65 | 65 | 65 | 62 | 62 | 62 | 62 | 62 |
| Nominal inrush VA | 60 Hz | 60 | 60 | 60 | 60 | 60 | 59 | 59 | 59 | 59 | 59 |
| Nominal closed VA | 50 Hz | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 9 | 9 | 9 | 9 | 9 |
| Nominal closed VA | 60 Hz | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 6 | 7 | 7 |
| Nominal DC resistance | Ohms | 7 | 180 | 720 | 900 | 1320 | 2.4 | 150 | 600 | 750 | 1452 |

| Other specifications | DP20 to DP30, 3 poles | DP40, 3 poles | DP50 to DP60, 3 poles |
|----------------------------------|------------------------------|---------------------------|--|
| Line and load terminals | # 10 - 32 screw ¹ | Box lug ¹ | Box lug ¹ |
| Wire size AWG (min - max) | 16 - 8 ² | 14 - 4 Cu/Al | 14 - 2 Cu/Al |
| Tightening torque (recommended) | 22 in. lbs. | 40 in. lbs. | 50 in. lbs. |
| Quick connects (power terminals) | Dual .250 QC | Dual .250 QC | Dual .250 QC |
| Coil terminals | Dual .250 QC ² | Dual .250 QC ² | # 6 - 32 screw & dual .250 QC ² |
| Covers | Optional | Standard | Standard |
| Insulation system | 130° C class B | 130° C class B | 130° C class B |

Technical Data

DP20 to DP40, 4 poles

| Coil Technical Data | DP20 to DP40, 4 poles | | | | |
|----------------------------------|------------------------------|---------|----------------------------|----------|-----------|
| Nominal coil voltage | 24 | 120 | 208/240 | 277 | 480 |
| Maximum pickup volts | 18 | 88 | 177 | 220 | 384 |
| Drop out volts range | 6 - 15 | 20 - 70 | 40 - 140 | 65 - 185 | 150 - 270 |
| Nominal inrush VA 50 Hz | 62 | 62 | 62 | 62 | 62 |
| Nominal inrush VA 60 Hz | 59 | 59 | 59 | 59 | 59 |
| Nominal closed VA 50 Hz | 9 | 9 | 9 | 9 | 9 |
| Nominal closed VA 60 Hz | 7 | 7 | 6 | 7 | 6 |
| Nominal DC resistance Ohms | 6 | 148 | 600 | 750 | 2100 |
| Other specifications | DP20 to DP30, 4 poles | | DP40, 4 poles | | |
| Line and load terminals | # 10 - 32 screw ¹ | | Box lug ¹ | | |
| Wire size AWG (min - max) | 16 - 8 ² | | 14 - 4 Cu/Al | | |
| Tightening torque (recommended) | 22 in. lbs. | | 40 in. lbs. | | |
| Quick connects (power terminals) | Dual .250 QC | | Dual .250 QC | | |
| Coil terminals | Dual .250 QC ² | | Dual .250 QC ² | | |
| Covers | Optional | | Standard | | |
| Insulation system | 130 ⁰ C class B | | 130 ⁰ C class B | | |

¹ See diagram on page 7 for approximate dimensions and description

² Stranding must be split for # 8 wire