SIEMENS

*Ingenuity for life*



# Definite Purpose Contactors

## Back by popular demand, Class 42 & 45 DP Contactors

2019 Catalog Supplement

usa.siemens.com/controls



# Definite Purpose Control






**Class 42**




**Class 45**

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**Definite Purpose Contactors**

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# Class 42 & 45 Product Nomenclature

**Class 45**
**DP Contactor**

Information shown on nomenclature sheets is for reference only to identify devices from existing catalog numbers. This information is not to be used for the creation of new catalog numbers.

| 45 | C | G | 2 | 0 | A | J | A |
|---|---|---|---|---|---|---|---|
| **CLASS** | **AMP RATING** | **MODEL** | **POWER POLES** | **NC POWER POLES** | **ENCLOSURE** | **COIL** | **STD FEATURES** |
| **45** DP Contactor | **E** 30<br>**G** 40 | **G** | **1** 1 power pole<br>**2** 2 power poles | **0** None | **A** Open | **F** 120V, 60 HZ<br>110V, 50 HZ<br>**G** 208-240V, 60 HZ<br>190-220V, 50 HZ<br>**H** 440-480V, 60 HZ<br>380-440V, 50 HZ<br>**J** 24V, 60 HZ<br>24V, 50 HZ<br>**L** 277V, 60 HZ | **A** Jumper Bar<br><br>* Class F coil standard. Binding head screws (30A)/ lugs (40A) and quad quick connect standard.<br><br>* Contact cover comes standard. |



**Class 42**
**DP Contactor**

Information shown on nomenclature sheets is for reference only to identify devices from existing catalog numbers. This information is not to be used for the creation of new catalog numbers.

| 42 | B | F | 3 | 5 | A | J |
|---|---|---|---|---|---|---|
| **CLASS** | **AMP RATING** | **MODEL** | **POWER POLES** | **CONTROL CIRCUIT** | **ENCLOSURE** | **COIL** |
| **42** DP Contactor | **B** 30<br>**C** 40<br>**D** 50<br>**E** 60<br>**F** 75<br>**G** 90 | **F**<br>**E***<br><br>*75-90 amp only | **1** 2 power poles<br>**3** 3 power poles | **5** Without auxiliary contact | **A** Open | **F** 110V, 50 HZ<br>120V, 60 HZ<br>**G** 190-220V, 50 HZ<br>208-240V, 60 HZ<br>**J** 24V, 50 HZ<br>24V, 60 HZ<br>**H** 380-440V, 50 HZ<br>440-480V, 60 HZ<br>**L** 277V, 60 HZ |



## Class 45




**45EG10AJA**




**45GG10AJA**




**45EG20AJ**




**45GG20AJ**

### Features

- Power Terminations:
  - Quad Quick Connects
  - 30A: Screws
  - ≥40A: Box Lugs
- Compact Size
- Durable Metal Back Plate
- Enclosed Body and Coil
- One Pole Version Includes Shunt Bar
- Quiet Operation
- Weld-Resistant Silver Cadmium Oxide Contacts
- Visual Contact Position Indication
- Class F Coil Insulation

## Class 42




**42BF35AJ**




**42CF35AJ**




**42CF15AJ**



**42FE35AJ**

### Features

- Power Terminations:
  - Quick Connects
  - 30A: Screws
  - ≥40A: Box Lugs
- Compact Size
- Durable Metal Back Plate
- Quiet Operation
- Weld-Resistant Silver Cadmium Oxide Contacts
- Visual Contact Position Indication
- Class F Coil Insulation
- Snap-On Auxiliary Contacts
- Replacement Coils Available

Approvals & Standards:

- c UL us
- ARI 780 & 790
- Canadian Heater Rated
- SCCR 600 VAC
- UL File E14900




## Ordering Information

- Use complete catalog number. Replace the (●) with letter from the coil table on this page
- For additional information see www.usa.siemens.com/controls

## Coil Selection (●)

| 60Hz Voltage | 50Hz Voltage | Letter |
|---|---|---|
| 24 | 24 | J |
| 110–120 | 110 | F |
| 208–240 | 190–220 | G |
| 277 | 240 | L |
| 440–480 | 380–440 | H① |

① Not available on Class 42 2-pole units

# Contactors

### Class 45 Contactors

| FLA | Locked Rotor Amps 240V | 277V | 480V | 600V | Non Inductive Amps | Poles | Catalog Number |
|---|---|---|---|---|---|---|---|
| 30 | 180 | 180 | — | — | 40 | 1 | **45EG10A●A** |
| 40 | 240 | 240 | — | — | 50 | 1 | **45GG10A●A** |
| 30 | 180 | — | 150 | 120 | 40 | 2 | **45EG20A●** |
| 40 | 240 | — | 200 | 160 | 50 | 2 | **45GG20A●** |

### Class 42 Contactors

| FLA | Locked Rotor Amps 240V | 480V | 600V | Non Inductive Amps | Horsepower 1 PH 120 V | 1 PH 240 V | 3 PH 240V | 3 PH 480V | 3 PH 600V | Poles | Catalog Number |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | 180 | 150 | 120 | 40 | 2 | 3 | 7.5 | — | — | 2 | **42BF15A●** |
| 40 | 240 | 200 | 160 | 50 | 3 | 5 | 10 | — | — | 2 | **42CF15A●** |
| 30 | 180 | 150 | 120 | 40 | — | 3 | 7.5 | 10 | 15 | 3 | **42BF35A●** |
| 40 | 240 | 200 | 160 | 50 | — | 5 | 10 | 15 | 20 | 3 | **42CF35A●** |
| 50 | 300 | 250 | 200 | 63 | — | 5 | 15 | 20 | 25 | 3 | **42DF35A●** |
| 60 | 360 | 300 | 240 | 75 | — | 7.5 | 20 | 25 | 30 | 3 | **42EF35A●** |
| 75 | 450 | 375 | 300 | 94 | — | 15 | 25 | 40 | 40 | 3 | **42FE35A●** |
| 90 | 540 | 450 | 360 | 120 | — | 15 | 30 | 50 | 50 | 3 | **42GE35A●** |

# Accessories

### Auxiliary Contacts

| Description | Class | Contactor FLA | Auxiliary Contact Ratings | Auxiliary Contacts | Catalog Number |
|---|---|---|---|---|---|
| Snap-on Side Mounted Auxiliary Contacts   **49ACR0** | 42 | 30-60 | NEMA A600 10A 600VAC | 1 NO | **49ACR0** |
| | | | | 1 NC | **49ACRC** |
| | | | | 1 NO & 1 NC | **49ACR6** |
| | | | | 2 NO | **49ACR7** |
| | | | | 2 NC | **49ACR8** |
| | | | 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC | 1 SPDT | **49D36098001** |
| | | | | 2 SPDT | **49D36098003** |
| | 42 | 75-90 | NEMA A600 10A 600V | 1 NO | **49D22125001** |
| | | | | 1 NC | **49D22125002** |
| | | | 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC | 1 SPDT | **49CE42SPDT** |

# Replacement Coils

## Class 42

| Description | Third Character of Cat. No. | Fourth Character of Cat. No. | Volts 60 Hz | Volts 50 Hz | Catalog Number |
|---|---|---|---|---|---|
|  **75D70646AF** | B, C | F | 24 | 24 | **75D70646AJ** |
| | | | 110-120 | 110 | **75D70646AF** |
| | | | 208-240 | 190-220 | **75D70646AG** |
| | | | 277 | 240 | **75D70646AL** |
| | | | 440-480 | 380-440 | **75D70646AH** |
|  **75D70550AF** | D, E | F | 24 | 24 | **75D70550AJ** |
| | | | 110-120 | 110 | **75D70550AF** |
| | | | 208-240 | 190-220 | **75D70550AG** |
| | | | 277 | 240 | **75D70550AL** |
| | | | 440-480 | 380-440 | **75D70550AH** |
|  **75D54772AF** | F, G | E | 24 | 24 | **75D54772AJ** |
| | | | 110-120 | 110 | **75D54772AF** |
| | | | 208-240 | 190-220 | **75D54772AG** |
| | | | 277 | 240 | **75D54772AL** |
| | | | 440-480 | 380-440 | **75D54772AH** |

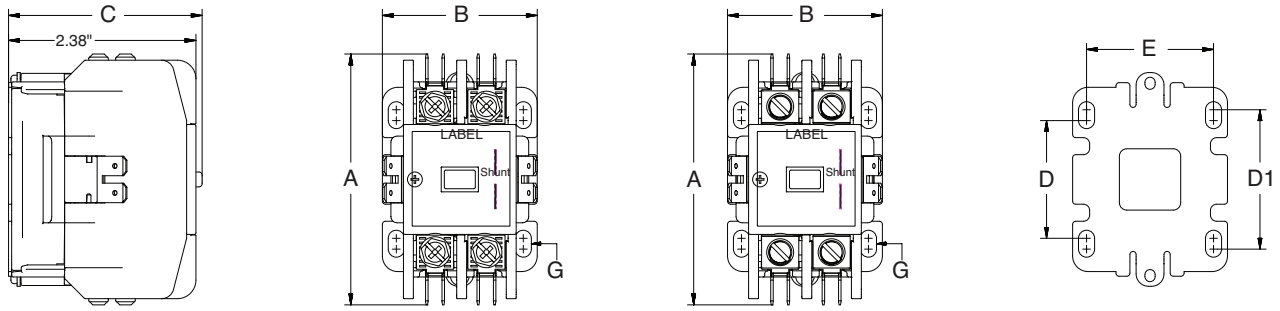
## Catalog Numbers

| Poles | Amps | Coil Volts | SIEMENS | ABB | Allen Bradley | Arrow Hart | Eaton Cutler Hammer | Fasco | General Electric | Joslyn Clark | Products Unlimited | Square D | Steveco |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30 | 24 | **45EG10AJA** | DP30C1P-F | 400-DP30NJ1 | C301NU10 | C25CNB130T | 1S30-A | CR453CC3HAA | A77-306653A-3 | 3100-15Q2 | 8910DP31V14 | 94388 |
| | | 120 | **45EG10AFA** | DP30C1P-1 | 400-DP30ND1 | C301NU20 | C25CNB130A | 1S30-B | CR453CC3AAA | A77-306653A-1 | 3100-15T2 | 8910DP31V02 | 94389 |
| | | 208/240 | **45EG10AGA** | DP30C1P-2 | 400-DP30NA1 | C301NU30 | C25CNB130B | 1S30-C | CR453CC3BAA | A77-3066531-2 | 3100-15U2 | 8910DP31V09 | 94390 |
| | 40 | 24 | **45GG10AJA** | — | — | — | C25CNB140T | — | — | — | 3100-15Q19 | 8910DP41V14 | — |
| | | 120 | **45GG10AFA** | — | — | — | C25CNB140A | — | — | — | 3100-15T19 | 8910DP41V02 | — |
| | | 208/240 | **45GG10AGA** | — | — | — | C25CNB140B | — | — | — | 3100-15U19 | 8910DP41V09 | — |
| 2 | 30 | 24 | **45EG20AJ** | — | 400-DP30NJ2 | C302U10 | C25BNB230T | 2S30-A | CR453CC2HAA | A77-306657A-3 | 3100-20Q6 | 8910DPA32V14 | 90244 |
| | | 120 | **45EG20AF** | — | 400-DP30ND2 | C302U20 | C25BNB230A | 2S30-B | CR453CC2AAA | A77-306657A-1 | 3100-20T6 | 8910DPA32V02 | 90245 |
| | | 208/240 | **45EG20AG** | — | 400-DP30NA2 | C302U30 | C25BNB230B | 2S30-C | CR453CC2BAA | A77-306657A-2 | 3100-20U6 | 8910DPA32V09 | 90246 |
| | | 277 | **45EG20AL** | — | 400-DP30NF2 | C302050 | C25BNB230H | — | CR453CC2FAA | — | 3100-20V6 | 8910DPA32V04 | — |
| | 40 | 24 | **45GG20AJ** | — | — | CA01NU10 | C25BNB240T | — | CR453CE2HBB | — | 3100-20Q18 | 8910DP42V14 | — |
| | | 120 | **45GG20AF** | — | — | CA01NU20 | C25BNB240A | — | CR453CE2ABB | — | 3100-20T18 | 8910DP42V02 | — |
| | | 208/240 | **45GG20AG** | — | — | CA01NU30 | C25BNB240B | — | CR453CE2BBB | — | 3100-20U18 | 8910DP42V09 | — |
| 3 | 30 | 24 | **42BF35AJ** | DP30C3P-F | 400-DP30NJ3 | ACC330UM10 | C25DND330T | 3M30-A | CR453AC3HAA | A77-309044A-3 | 3100-30Q9 | 8910DPA33V14 | 90163 |
| | | 120 | **42BF35AF** | DP30C3P-1 | 400-DP30ND3 | ACC330UM20 | C25DND330A | 3M30-B | CR453AC3AAA | A77-309044A-1 | 3100-30T99 | 8910DPA33V02 | 90164 |
| | | 208/240 | **42BF35AG** | DP30C3P-2 | 400-DP30NA3 | ACC330UM30 | C25DND330B | 3M30-C | CR453AC3BAA | A77-309044A-2 | 3100-30U9 | 8910DPA33V03 | 90165 |
| | 40 | 24 | **42CF35AJ** | DP40C4P-F | 400-DP40NJ3 | ACC430UM10 | C25DNF340T | 3M40-A | CR453AD3HBB | A77-309046A-3 | 3100-30Q10 | 8910DPA43V14 | 90170 |
| | | 120 | **42CF35AF** | DP40C4P-1 | 400-DP40ND3 | ACC430UM20 | C25DNF340A | 3M40-B | CR453AD3ABB | A77-309046A-1 | 3100-30T10 | 8910DPA43V02 | 90171 |
| | | 208/240 | **42CF35AG** | DP40C4P-2 | 400-DP40NA3 | ACC430UM30 | C25DNF340B | 3M40-C | CR453AD3BBB | A77-309046A-2 | 3100-30U10 | 8910DPA43V09 | 90172 |
| | 50 | 24 | **42DF35AJ** | — | 400-DP50NJ3 | ACC530U10 | C25FNF350T | 3L50-A | CR353FE3BH1 | A77-288514A-3 | 3100-30Q16 | 8910DPA53V14 | 92459 |
| | | 120 | **42DF35AF** | — | 400-DP50ND3 | ACC530U20 | C25FNF350A | 3L50-B | CR353FE3BA1 | A77-288514A-1 | 3100-30T16 | 8910DPA53V02 | 92460 |
| | | 208/240 | **42DF35AG** | — | 400-DP50NA3 | ACC530U30 | C25FNF350B | 3L50-C | CR353FE3BB1 | A77-288514A-2 | 3100-30U16 | 8910DPA53V09 | 92461 |
| | 60 | 24 | **42EF35AJ** | DP60C3P-F | 400-DP60NJ3 | ACC630U10 | C25FNF360T | 3L60-A | CR353FF3BH1 | A77-288517A-3 | 3100-30Q17 | 8910DPA63V14 | 92462 |
| | | 120 | **42EF35AF** | DP60C3P-1 | 400-DP60ND3 | ACC630U20 | C25FNF360A | 3L60-B | CR353FF3BA1 | A77-288517A-1 | 3100-30T17 | 8910DPA63V02 | 92463 |
| | | 208/240 | **42EF35AG** | DP60C3P-2 | 400-DP60NA3 | ACC630U30 | C25FNF360B | 3L60-C | CR353FF3BB1 | A77-288517A-2 | 3100-30U17 | 8910DPA63V09 | 92464 |
| | 75 | 24 | **42FE35AJ** | — | 400-DP75NJ3 | ACC730U10 | C25FNF375T | — | CR353EG3BH1 | A77-288520A-3 | 3186-30I75 | 8910DPA73V14 | 92465 |
| | | 120 | **42FE35AF** | — | 400-DP75ND3 | ACC730U20 | C25FNF375A | — | CR353EG3BA1 | A77-288520A-1 | 3186-30J75 | 8910DPA73V02 | 92467 |
| | | 208/240 | **42FE35AG** | — | 400-DP75NA3 | ACC730U30 | C25FNF375B | — | CR353EG3BB1 | A77-288520A-2 | 3186-30K75 | 8910DPA73V09 | 92468 |
| | 90 | 24 | **42GE35AJ** | — | — | — | C25GNF390T | — | CR353EH3BH1 | — | 3186-30I90 | 8910DPA93V14 | 92469 |
| | | 120 | **42GE35AF** | — | — | ACC930U20 | C25GNF390A | — | CR353EH3BA1 | — | 3186-30J90 | 8910DPA93V02 | — |
| | | 208/240 | **42GE35AG** | — | — | ACC930U30 | C25GNF390B | — | CR353EH3BB1 | — | 3186-30K90 | 8910DPA93V09 | — |

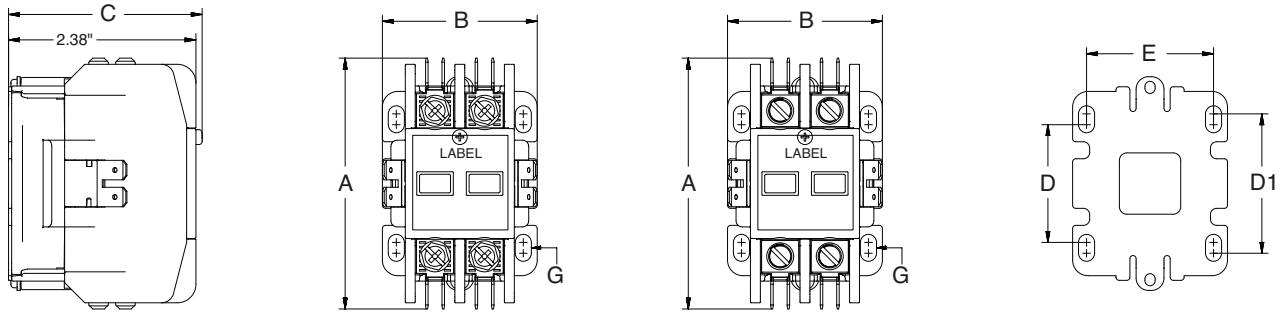
This cross reference does not purport to cover all details or variations in equipment, nor to provide for every possible contingency to be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the local Siemens Industry, Inc. sales office.

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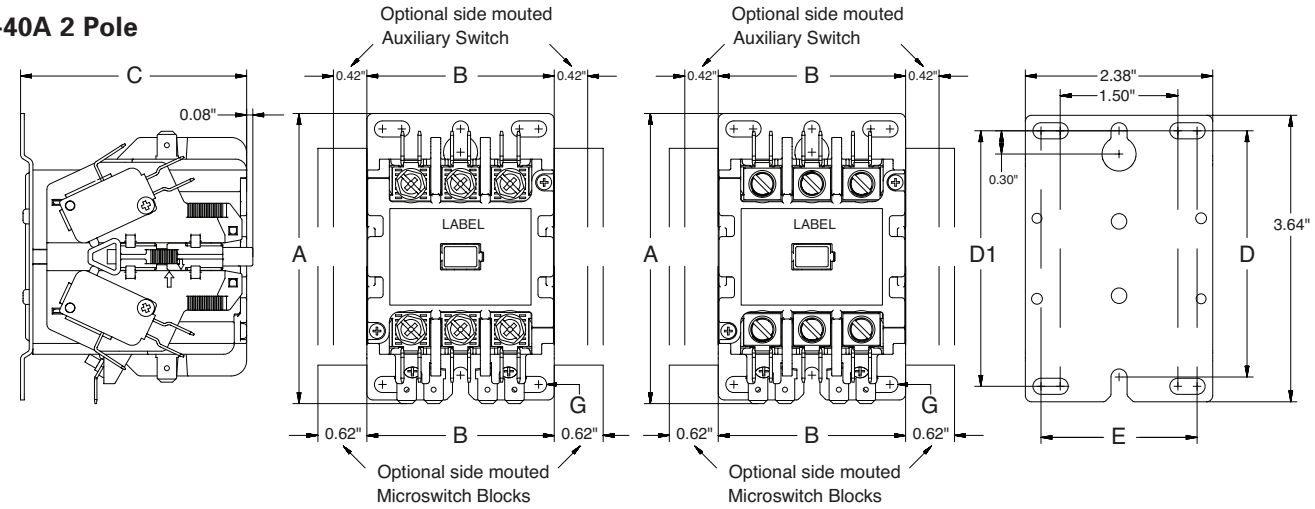
## 30-40A 1 Pole with Shunt




## 30-40A 2 Pole



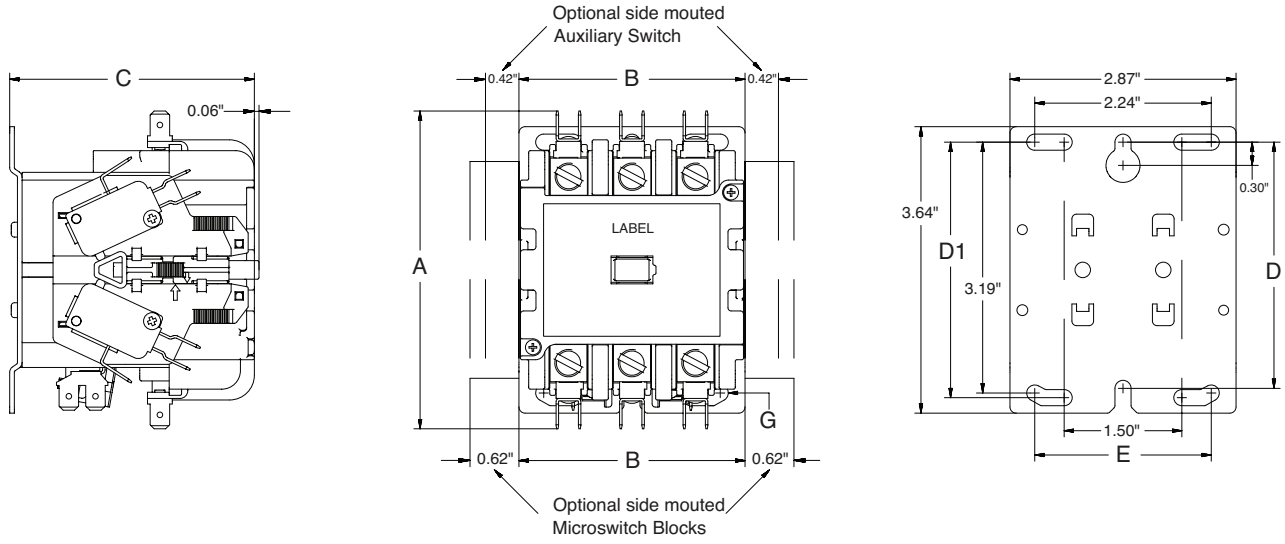

## 30-40A 2 Pole



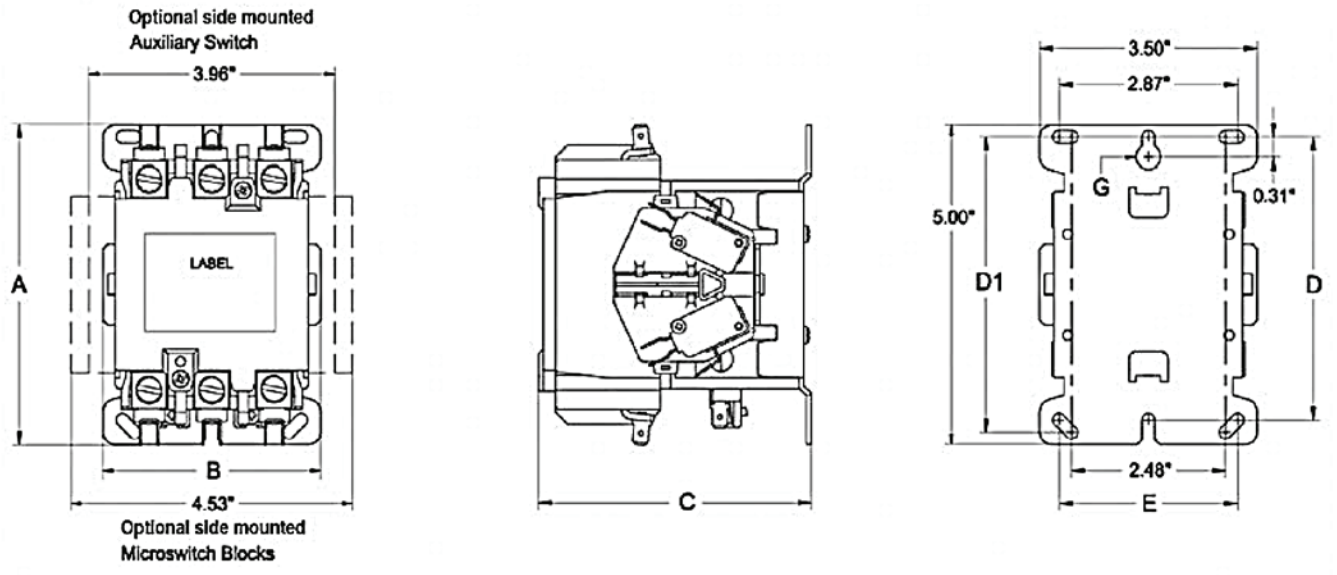

| Catalog No. | FLA | Poles | Dimensions | | | | | | Mounting Screw G | Max Wire Size | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | D1 | E | | | |
| **45EG10A*A** | 30 | 1 | 3.19 | 1.97 | 2.46 | 1.5 | 1.77 | 1.61 | 10 | 8 | .58 lbs. |
| **45GG10A*A** | 40 | 1 | 3.19 | 1.97 | 2.46 | 1.5 | 1.77 | 1.61 | 10 | 4 | .62 lbs. |
| **45EG20A*A** | 30 | 2 | 3.19 | 1.97 | 2.46 | 1.5 | 1.77 | 1.61 | 10 | 8 | .58 lbs. |
| **45GG20A*A** | 40 | 2 | 3.19 | 1.97 | 2.46 | 1.5 | 1.77 | 1.61 | 10 | 4 | .62 lbs. |
| **42BF35A*** | 30 | 3 | 3.69 | 2.38 | 2.87 | 3.13 | 3.25 | 1.98 | 10 | 8 | 1.04 lbs. |
| **42CF35A*** | 40 | 3 | 3.69 | 2.38 | 2.87 | 3.13 | 3.25 | 1.98 | 10 | 4 | 1.08 lbs. |
| **42BF15A*** **42CF15A*** | 30-40 | 2(at 3P)* | 3.69 | 2.38 | 2.87 | 3.13 | 3.25 | 1.98 | 10 | 4 | 1.03 lbs. |

Note - 2* Pole is a 3 pole body with center contacts removed.

## 50-60A 3 Pole




## 75-90A 3 Pole




| Catalog No. | FLA | Poles | Dimensions | | | | | | Mounting Screw G | Max Wire Size | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | D | D1 | E | | | |
| 42DF35A*<br>42EF35A* | 50-60 | 3 | 4.04 | 2.87 | 3.11 | 3.13 | 3.25 | 2.24 | 10 | 2 | 1.59 lbs. |
| 42FE35A*<br>42GE35A* | 75-90 | 3 | 5.02 | 3.5 | 4.39 | 4.43 | 4.63 | 2.87 | 10 | 1/10 | 4.08 lbs. |

## Notes

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