



# Model 93 - 3100 series

## Definite Purpose Contactor 3-pole, 50-60 FLA AC Coil

 File E75492  
 File EN60947-4-1:1991  
 IEC 947-4-1

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 ensure the product meets the requirements for a given application.

### Features

- 3-pole contactors.
- Convenient "universal" mounting plate.
- Optional interlock/auxiliary switches available.

### Contact Data @ 25°C

**Arrangements:** 3 Form X (3PST-NO-DM).  
**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.

### Environmental Data

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

### Mechanical Data

#### Contact Termination:

**Type:** Box Lug with dual 0.250" (6.35 mm) quick connects.  
**Wire Size:** 14-2 Cu/Al AWG  
**Tightening Torque:** 50 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.  
**Weight:** 32 oz. (910 g) approximately

### Contact Ratings

| Full Load Amps | Number of Poles | Line Voltage | Locked Rotor Amps | Resistive Amps | Tungsten/ Ballast Amps | Maximum Horsepower |              |             |
|----------------|-----------------|--------------|-------------------|----------------|------------------------|--------------------|--------------|-------------|
|                |                 |              |                   |                |                        | Voltage            | Single Phase | Three Phase |
| 50             | 3               | 240          | 300               | 65             | –                      | 110/120            | 3            | –           |
|                |                 | 480          | 250               | 65             | 53                     | 200/208            | 7.5          | 15          |
|                |                 | 600          | 200               | 65             | –                      | 240/277            | 10           | 15          |
| 60             | 3               | 240          | 360               | 75             | –                      | 480                | –            | 25          |
|                |                 | 480          | 300               | 75             | 53                     | 600                | –            | 25          |
|                |                 | 600          | 240               | 75             | –                      | 110/120            | 5            | –           |
|                |                 | 240          | 360               | 75             | –                      | 200/208            | 7.5          | 25          |
|                |                 | 480          | 300               | 75             | 53                     | 240/277            | 10           | 25          |
|                |                 | 600          | 240               | 75             | –                      | 480                | –            | 30          |
|                |                 | 240          | 360               | 75             | –                      | 600                | –            | 30          |

### Coil Data

|                              |      |         |          |        |           |
|------------------------------|------|---------|----------|--------|-----------|
| Nominal Coil Voltage         | 24   | 120     | 208/240  | 277    | 480       |
| Maximum Pickup Volts         | 182  | 93      | 177      | 235    | 374       |
| Drop-Out Volts Range         | 6-15 | 20 - 70 | 40 - 135 | 50-180 | 120 - 286 |
| Nominal Inrush VA @ 50 Hz    | 140  | 140     | 140      | 140    | 140       |
| Nominal Inrush VA @ 60 Hz    | 132  | 132     | 132      | 132    | 132       |
| Nominal Sealed VA @ 50 Hz    | 20   | 20      | 20       | 20     | 20        |
| Nominal Sealed VA @ 60 Hz    | 14   | 14      | 14       | 14     | 14        |
| Nominal DC Resistance - Ohms | 2.4  | 45      | 180      | 280    | 852       |

## Ordering Information

Typical Part No. ►

3100

30

I

16

999

## 1. Series:

3100 = 3-pole, 50-60 FLA contactor

## 2. Packaging:

Y = Individual Pack

- = Bulk Pack

A-ZZZ = Customer specific information (assigned by factory)

## 3. Pole Configuration:

30 = 3 Form X (3PST-NO-DM)

## 4. Coil Voltage (50/60 Hz.):

I = 24VAC, molded

K = 208/240VAC, molded

J = 120VAC, molded

M = 277VAC, molded

W = 480VAC, molded

## 5. Contact Ratings (Inductive):

16 = 50 FLA 17 = 60 FLA

## 6. Customer ID Suffix:

999 = Standard Model

000-998 = Factory assigned customer ID

## 7. Option Code:

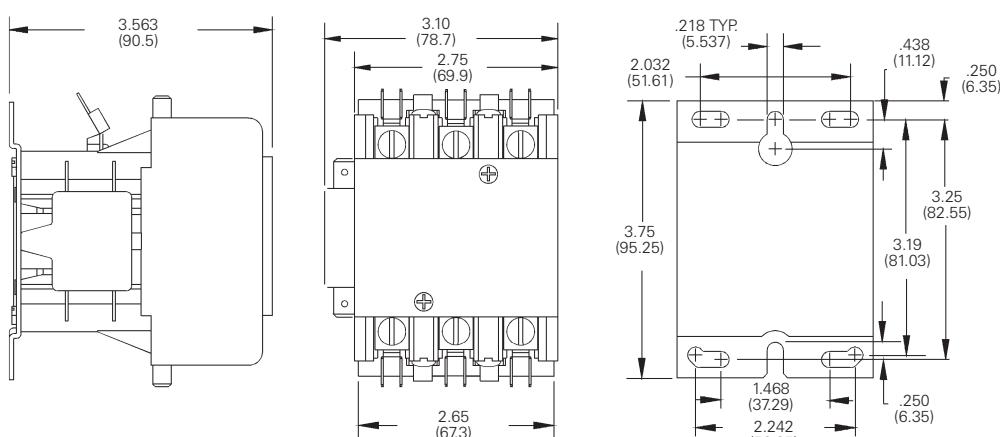
Leave Blank = No customer-specific options

A - ZZ = Factory assigned customer-specific options.

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

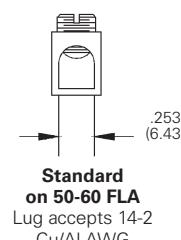
None at present.

## Outline Dimensions

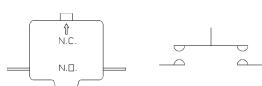
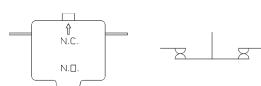
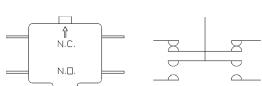
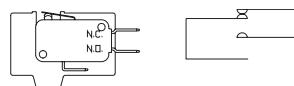
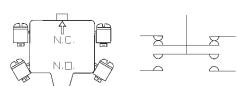


Shown with Optional Auxiliary Switch

## Termination

Standard on 50-60 FLA  
Lug accepts 14-2  
Cu/Al AWG

Various interlock / auxiliary switches are available for the Model 93 contactor.

NORMALLY OPEN  
-303 STYLENORMALLY CLOSED  
-331 STYLENORMALLY OPEN & CLOSED  
-332 STYLESPDT  
-337 & -341 STYLEW/ #6-32 SCREW & SADDLE CLAMP  
-344 STYLE

## Equipped with 0.250" (6.35) Quick Connect Terminals

| Description   | Factory Modifications      |                            | Field Added Kits   |                            |
|---|----------------------------|----------------------------|--|----------------------------|
|   | Contact Config.<br>NO      | NC                         | Kit Catalog<br>Number  | Number of<br>Kits Required |
| Single unit interlock configurations listed. Maximum of two. Must be same polarity. See footnote (1) for ratings. | 1<br>0<br>1<br>2<br>0<br>2 | 0<br>1<br>1<br>0<br>2<br>2 | 34300-303<br>34300-331<br>34300-332<br>34300-303<br>34300-331<br>34300-332 | 1<br>1<br>1<br>2<br>2<br>2 |
| SPDT Circuit See footnote (2) for ratings.  | 1<br>2                     | 1<br>2                     | 34300-337<br>34300-337   | 1<br>2                     |
| SPDT Dry Circuit, 0.1 amp max. Gold Flashed Contacts  | 1<br>2                     | 1<br>2                     | 34300-341<br>34300-340   | 1<br>1                     |

## Equipped with #6-32 Screw Terminals &amp; Saddle Clamps

| Description  | Factory Modifications |             | Field Added Kits                    |                            |
|--|-----------------------|-------------|-------------------------------------|----------------------------|
|  | Contact Config.<br>NO | NC          | Kit Catalog<br>Number               | Number of<br>Kits Required |
| Single unit interlock configurations listed. Maximum of two. Must be same polarity. (note 1) | 1<br>0<br>1           | 0<br>1<br>1 | 34300-342<br>34300-343<br>34300-344 | 1<br>1<br>1                |

## Footnotes: Ratings of Auxiliary Interlocks / Switches

(1) Contact Rating Single Circuit NO or NC

and two circuit NO/NC:

120V 240V 480V 600V

Break 3.0A 1.5A 0.75A 0.6A

Make 30A 15A 7.5A 6A

Continuous 10A 10A 10A 10A

(2) Contact Rating SPDT (337):

10A, 1/3 HP, 125 or 250 VAC

1/2A, 125 VDC; 1/4A, 250 VDC:

4A 120 VAC on Lamp Load

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[3100Y30I16999CJ](#)