

Model 93 - 3100 series

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

€¶\$us File E75492 (€ ⑤ 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.

Environmental Data

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

Contact Data @ 25°C

Features

3-pole contactors.

Arrangements: 3 Form X (3PST-NO-DM). Maximum Ratings: See Contact Ratings Table. Material: Silver Cadmium Oxide.

Convenient "universal" mounting plate.

Optional interlock/auxiliary switches available.

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

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.

Contact Ratings

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

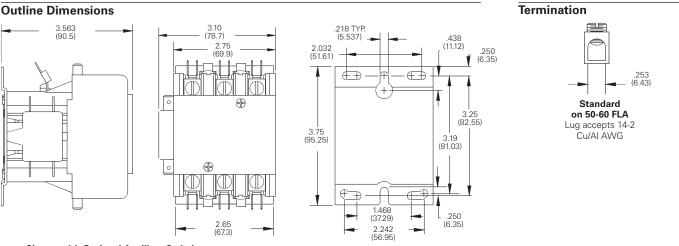
Dimensions are shown for reference purposes only.

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Ordering Information 3100 30 16 999 Typical Part No. 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: 000-998 = Factory assigned customer ID 999 = Standard Model 7. Option Code: Leave Blank = No customer-specific options A - ZZ = Factory assigned customer-specific options.

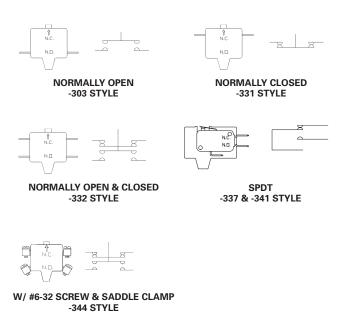
Standard part numbers listed below are more likely to be available from stock.

None at present.



Shown with Optional Auxiliary Switch

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



Equipped with 0.250" (6.35) Quick Connect Terminals

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

Equipped with #6-32 Screw Terminals & Saddle Clamps

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

Footnotes: Ratings of Auxiliary Interlocks / Switches

(1) Contact Rating Single Circuit NO or NC and two circuit NO/NC: 1201/ 2401/ 4801/ 600

| II U LVVO CII CUIL INO/INC. | | | | | | | | |
|-----------------------------|-------------|-------------|-------------|-------------|--|--|--|--|
| | <u>120V</u> | <u>240V</u> | <u>480V</u> | <u>600V</u> | | | | |
| 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

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Dimensions are in inches over (millimeters) unless otherwise specified. Specifications and availability subject to change.