

# Model A - 3100 series

## Definite Purpose Contactor 3-pole, 120 FLA AC Coil

 File E75492

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.

### 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:** 2 – 4-0 Cu/Al AWG  
**Tightening Torque:** 100 in.-lbs.  
**Coil Termination:** 0.250" quick connect and a #6-32 screw.  
**Arc Cover:** Standard.  
**Weight:** 128 oz. (3640 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 Load Amps	Number of Poles	Line Voltage	Locked Rotor Amps	Resistive Amps Rating	Maximum Horsepower		
					Voltage	Single Phase	Three Phase
120	3	240	720	150	110/120	10	-
		480	600	150	200/208	20	30
		600	480	150	240	25	40
					480	-	75
					600	-	75

### Coil Data

	24	120	208/240	277	480
Nominal Coil Voltage	24	120	208/240	277	480
Maximum Pickup Volts	20.4	93	176	235	374
Drop-Out Volts Range	6-15.6	20-70	40-135	65-180	150-270
Nominal Inrush VA @ 50 Hz	470	600	600	600	-
Nominal Inrush VA @ 60 Hz	400	510	510	510	510
Nominal Sealed VA @ 50 Hz	43	50	50	50	-
Nominal Sealed VA @ 60 Hz	40	48	48	40	48
Nominal DC Resistance - Ohms	.264	4.73	18.6	30.25	78

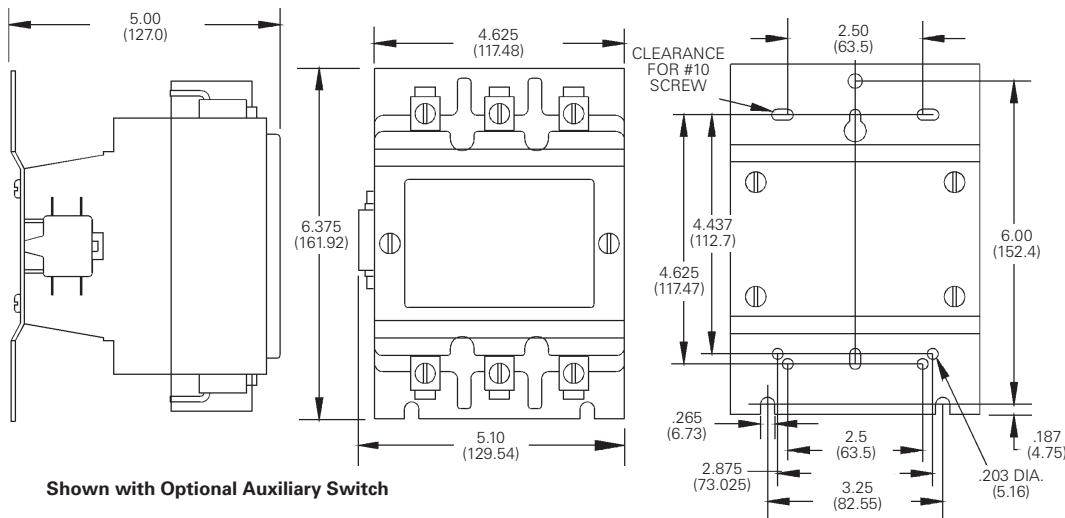
**Ordering Information**

<b>Typical Part No. ▶</b>	<b>3100</b>	-	<b>30</b>	<b>Q</b>	<b>12</b>	<b>999</b>	
<b>1. Series:</b> 3100 = 3-pole, 120 FLA contactor							
<b>2. Packaging:</b> Y = Individual Pack - = Bulk Pack A-ZZZ = Customer specific information (assigned by factory)							
<b>3. Pole Configuration:</b> 30 = 3 Form X (3PST-NO-DM)							
<b>4. Coil Voltage (50/60 Hz.):</b> Q = 24VAC    U = 208/240VAC    H = 480VAC T = 120VAC    V = 277VAC							
<b>5. Contact Ratings (Inductive):</b> 12 = 120 FLA							
<b>6. Customer ID Suffix:</b> 999 = Standard Model      000-998 = Factory assigned customer ID							
<b>7. Option Code:</b> 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.**

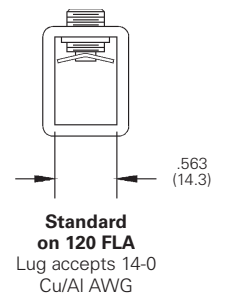
3100Y30Q12999CJ    3100Y30T12999CJ    3100Y30U12999CJ

**Outline Dimensions**



Shown with Optional Auxiliary Switch

**Termination**



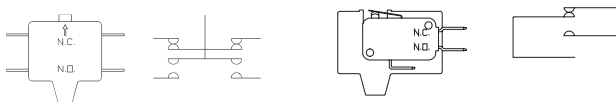
**Auxiliary Switches**

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



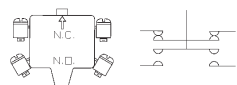
**NORMALLY OPEN  
-303 STYLE**

**NORMALLY CLOSED  
-331 STYLE**



**NORMALLY OPEN & CLOSED  
-332 STYLE**

**SPDT  
-337 & -341 STYLE**



**W/ #6-32 SCREW & SADDLE CLAMP  
-344 STYLE**

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

Description	Factory Modifications		Field Added Kits	
	Contact Config. NO	NC	Kit Catalog Number	Number of Kits Required
Single unit interlock configurations listed.	1	0	34300-303	1
	0	1	34300-331	1
Maximum of two. Must be same polarity.	1	1	34300-332	1
	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**

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

**Footnotes: Ratings of Auxiliary Interlocks / Switches**

(1) Contact Rating Single Circuit NO or NC and two circuit NO/NC:	(2) Contact Rating SPDT (337):
120V    240V    480V    600V	10A, 1/3 HP, 125 or 250 VAC
Break    3.0A    1.5A    0.75A    0.6A	1/2A, 125 VDC; 1/4A, 250 VDC;
Make    30A    15A    7.5A    6A	4A 120 VAC on Lamp Load
Continuous    10A    10A    10A    10A	

Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

Specifications and availability subject to change.

www.tycoelectronics.com  
Technical support:  
Refer to inside back cover.

**Engineering Notes**

