

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.

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: 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

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

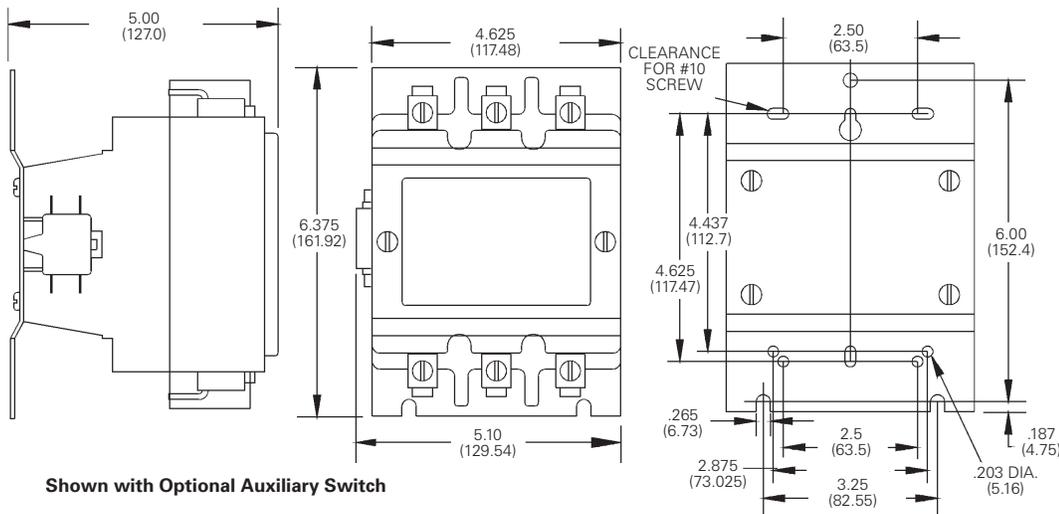
Ordering Information

Typical Part No. ▶	3100	-	30	Q	12	999	
1. Series: 3100 = 3-pole, 120 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.): Q = 24VAC U = 208/240VAC H = 480VAC T = 120VAC V = 277VAC							
5. Contact Ratings (Inductive): 12 = 120 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.

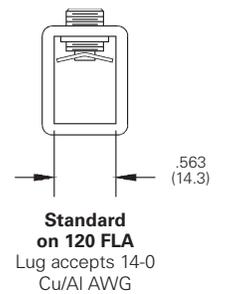
3100Y30Q12999CJ 3100Y30T12999CJ 3100Y30U12999CJ

Outline Dimensions



Shown with Optional Auxiliary Switch

Termination



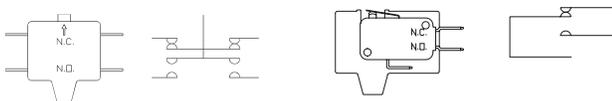
Auxiliary Switches

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



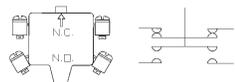
**NORMALLY OPEN
-303 STYLE**

**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

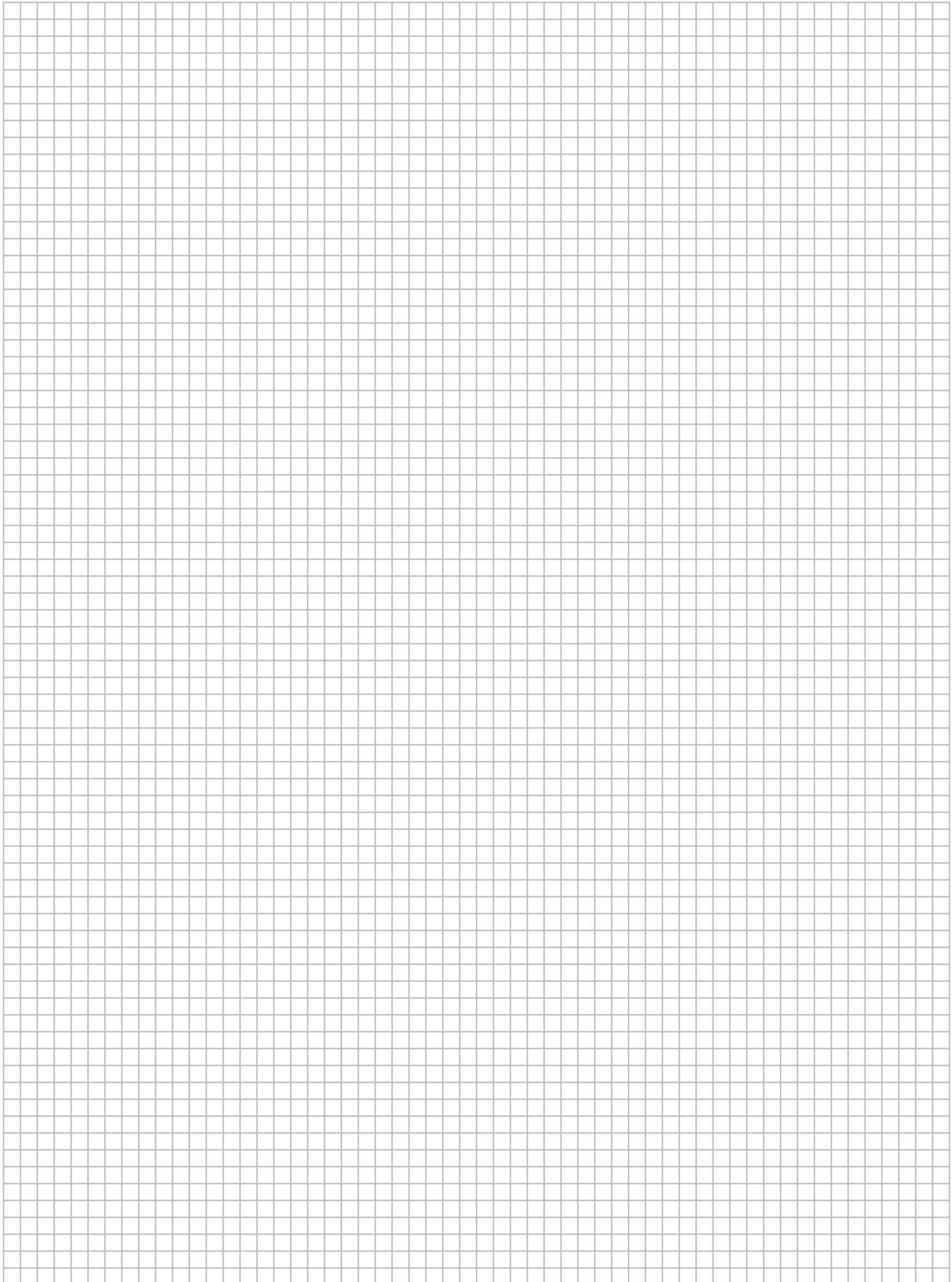
Equipped with #6-32 Screw Terminals & Saddle Clamps

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	

Engineering Notes



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