

Model 93 - 3100 series

Definite Purpose Contactor 4-pole, 25-40 FLA AC Coil

€¶Jus File E75492 C € S 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

4-pole contactors.

Arrangements: 4 Form X (4PST-NO-DM). Maximum Ratings: See Contact Ratings Table. Material: Silver Cadmium Oxide.

• Convenient "universal" mounting plate.

Optional interlock/auxiliary switches available.

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. Mechanical Data Contact Termination:
25, 30 FLA Models Type: #10-32 Screw with quad 0.250" (6.35 mm) quick connects. Wire Size: 16-8 AWG (Stranding must be split for 8 AWG wire.) Tightening Torque: 25 in.-lbs.
40 FLA Models Type: Box Lug with dual 0.250" (6.35 mm) quick connects. Wire Size: 14-4 Cu/Al AWG Tightening Torque: 40 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: Optional on 25-30 FLA models, standard on 40 FLA models. Weight: 24 oz. (683 g) approximately

Contact Ratings

Full Number		Line	Locked	Resistive	Maximum Horsepower			
Load Amps	of Poles	Voltage Rotor Amps Amps Rating			Voltage	Single Phase	Three Phase	
25	3	240/277 480 600	150 125 100	35 35 35	110/120 200/208 240/277 480	2 - 5 -	- 7.5 10 15	
30	3	240/277 480 600	180 150 120	40 40 40	110/120 200/208 240/277 480	2 - 5 -	- 10 10 15	
40	3	240/277 480 600	240 200 160	50 50 50	110/120 200/208 240/277 480	3 - 7.5 -	- 10 10 20	

Coil Data

Nominal Coil Voltage	24	120	208/240	277	480
Maximum Pickup Volts	19.2	93	177	220	384
Drop-Out Volts Range	6 -15	20 - 70	40 - 140	50-185	150 - 270
Nominal Inrush VA @ 50 Hz	68	68	68	58	48
Nominal Inrush VA @ 60 Hz	60	60	60	52	52
Nominal Sealed VA @ 50 Hz	14	14	14	11	11
Nominal Sealed VA @ 60 Hz	9	9	9.5	9.5	9
Nominal DC Resistance - Ohms	5	148	520	750	2700

tyco Electronics

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PRODUCTS UNLIMITED

Ordering Information							
Typical Part No. 🕨	3100	-	40	Q	9	999	
1. Series: 3100 = 4-pole, 25-40 FLA contactor							
2. Packaging: Y = Individual Pack - = Bulk Pack A-ZZZ = Customer specific information (assigned by factory	y)						
3.Pole Configuration: 40 = 4 Form X (4PST-NO-DM)							
	J = 120VAC, mold K = 208/240VAC, r		M = 277VAC, r W = 480VAC, r				
5.Contact Ratings (Inductive): 8 = 25 FLA 9 = 30 FLA 10 = 40 FLA					-		
6. Customer ID Suffix: 999 = Standard Model 000-998 = Factory assigned c	customer ID					-	
7. Option Code: Leave Blank = No customer-specific options	A - ZZ = Factor	ry assigned	d customer-spe	cific options			-

Standard part numbers listed below are more likely to be available from stock. None at present.

Outline Dimensions



Auxiliary Switches

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	Contac NO	t Config. NC	Kit Catalog Number	Number of Kits Required
Single unit interlock configurations listed.	1 0	0 1	34220-303N 34220-331N	1 1
Maximum of two. Must be same polarity.	1	1 0	34220-332N 34220-303N	1 2
See footnote (1) for ratings.	0	2	34220-331N 34220-332N	2
SPDT Circuit	1	1	34220-337N	1
See footnote (2) for ratings.	2	2	34220-337N	2
SPDT Dry Circuit, 0.1 amp max. Gold Flashed Contacts	1 2	1 2	34220-341N 34220-340N	1 1

Equipped with #6-32 Screw Terminals & Saddle Clamps

Factory Mo	Field Added Kits			
Description	Contac NO	t Config. NC	Kit Catalog Number	Number of Kits Required
Single unit interlock	1	0	34220-342N	1
configurations listed.	0	1	34220-343N	1
Maximum of two. Must be same polarity. (note 1)	1	1	34220-344N	1

Footnotes: Ratings of Auxiliary Interlocks / Switches

15A

10A

7.5A

10A

6A

10A

(1) Contact Rating Single Circuit NO or NC and two circuit NO/NC <u>120V</u> <u>240V</u> <u>480V</u> <u>600V</u> Break 3.0A 1.5A 0.75A 0.6A

30A

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

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

Specifications and availability subject to change.

Make

Continuous