





Model 96 - 3100 series

Definite Purpose Contactor 1- or 2-pole, 20-40 FLA AC Coil

c**Al**us 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.

Features

- Robust 1- and 2-pole contactors.
- Shunt available on 1-pole models.
- Convenient mounting plate.

Contact Data @ 25°C

Arrangements: 1 Form X (SPST-NO-DM) with or without shunt and

2 Form X (DPST-NO-DM).

Maximum Ratings: See Contact Ratings Table.

Material: Silver Cadmium Oxide

Coil Data @ 25°C

Voltage: 24 - 277 VAC, 50/60 Hz. See Coil Data Table below.

Insulation Class: UL Class B (130°C).

Duty Cycle: Continuous.

Mechanical Data

Contact Termination:

20, 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.

Arc Cover: Optional on 20-30 FLA models, standard on 40 FLA models.

Weight: One Pole Types: 8 oz. (227 g) approximately. Two Pole Types: 9.6 oz. (273 g) approximately

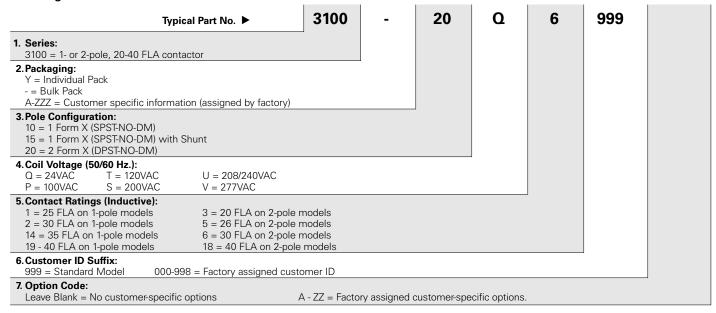
Contact Ratings

Full	Number	Line	Locked	Resistive	Maximum Horsepower	
Load Amps	of Poles	Voltage	Rotor Amps	Amps Rating	Voltage	Single Phase
		240/277	120	30	120	2
20	2	480	100	30	240	3
		600	80	30		
25		240/277	150	30	120	1
	1	480	50	30	240	2
		600	40	30		
25		240/277	150	35	120	2
	2	480	125	35	240	3
		600	100	35		
30	1	240/277	150	40	120	1
		480	75	40	240	2
		600	50	40		
30		240/277	150	40	120	2
	2	480	125	40	240	3
		600	100	40		
40		240/277	240	50	120	2
	1	480	200	50	240	3
		600	160	50		
40		240/277	240	50	120	2
	2	480	200	50	240	3
		600	160	50		

Coil Data

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	1-Pole Models				2-Pole Models							
Nominal Coil Voltage	24	120	208/240	277	24	120	208/240	277				
Maximum Pickup Volts	18	88	177	221	18	88	177	221				
Drop-Out Volts Range	6 - 15	20 - 70	40 - 140	50 - 165	6 - 15	20 - 70	40 - 140	50 - 165				
Nominal Inrush VA @ 50 Hz	22.5	22.5	22.5	22.5	37	37	37	37				
Nominal Inrush VA @ 60 Hz	20	20	20	20	35	35	35	35				
Nominal Sealed VA @ 50 Hz	7	7	7	7	8	8	8	8				
Nominal Sealed VA @ 60 Hz	5.25	5.25	5.25	5.25	7	7	7	7				
Nominal DC Resistance - Ohms	16.5	420	1850	2650	11	250	1000	1600				

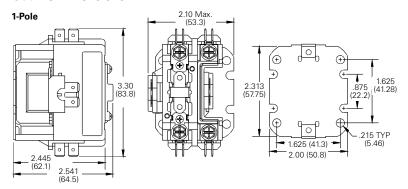
Ordering Information



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

3100-15Q2999 3100-20Q6999 3100-20Q18999CL 3100-15T2999 3100-20T6999 3100-20T18999CL 3100-15U2999 3100-20U6999 3100-20U18999CL

Outline Dimensions



Termination Options

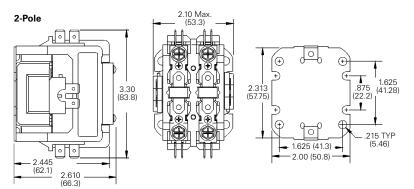
#12 Washer



Standard Special on 20, 25, 30, 35 FLA #10-32 Combination Phillips, Slotted & 5/16 Hex Head Special on 20, 25, 30, 35 FLA #10-32 Sems Screw with Pressure Plate



on 40 FLA Lug accepts 14-4 Cu/Al AWG



ORDERING NOTE: "Standard" terminals need not be specified in the "Ordering Information" chart above. "Special" terminals are offered on a special order basis.

Special order items may be subject to extended leadtimes and significant minimum order quantities. Your Tyco Electronics sales engineer must consult with the factory before providing price and availability information regarding items with these options.