





#### **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.

(480 & 575VAC coils available upon request.)

Insulation Class: UL Class B (130°C).

**Duty Cycle:** Continuous.

# Model 96 - 3100 series

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

**c Ru**us File E75492

**( €** S File EN60947-4-1:2010; EN60947-1:2007

File LR49598

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

### **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.

**NOTE:** Contactors with terminals of two-piece design are shipped with terminal screws left "up" to facilitate customer wiring. The customer must tighten the screws to the specified torque to achieve a good electrical connection.

#### 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

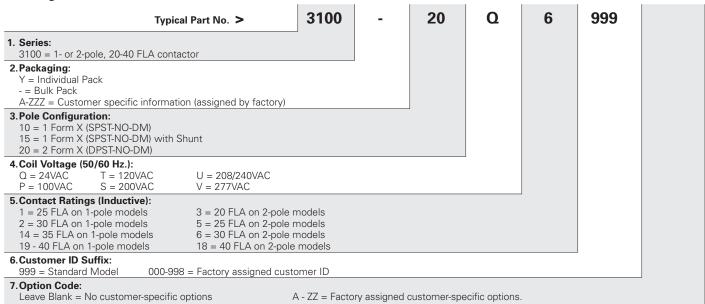
Full Load Amps	Number of Poles	Line Voltage	Locked Rotor Amps	Resistive	Maximum Horsepower		
				Amps Rating	Voltage	Single Phase	
		240/277	120	30	120	2	
20	2	480	100	30	240	3	
		600	80	30			
25	1	240/277	150	30	120	1	
		480	50	30	240	2	
		600	40	30			
25		240/277	150	35	120	2	
	2	480	125	35	240	3	
		600	100	35			
30	1	240/277	150	40	120	1	
		480	75	40	240	2	
		600	50	40			
30	2	240/277	150	40	120	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 ± 10%	16.5	440	1850	2250	11	250	1000	1600



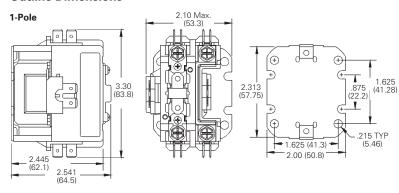
### **Ordering Information**



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

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

## **Outline Dimensions**



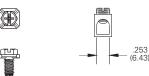
## **Termination Options**



5/16 Hex Head

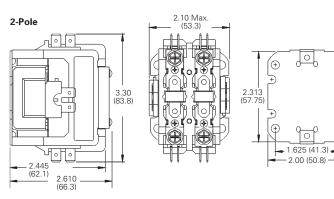
#12 Washer

Special on 20, 25, 30, 35 on 20, 25, 30, 35 FLA FLA #10-32 Sems Screw #10-32 Combination with Pressure Plate Phillips, Slotted &



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

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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 TE sales engineer must consult with the factory before providing price and availability information regarding items with these options.

.875 (41.28) (22.2)

215 TYP

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

<u>TE Connectivity</u>: 3100-15Q1999