





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 Ruus 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

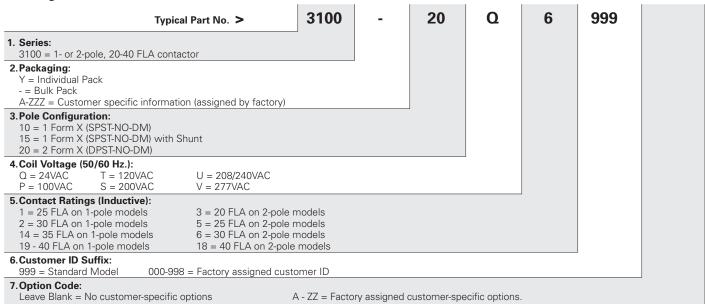
| Full Load Amps | Number of Poles | Line Voltage | Locked Rotor Amps | Resistive | Maximum Horsepower | | |
|----------------------|-----------------------|-----------------|-------------------------|----------------|--------------------|-----------------|--|
| | | | | Amps Rating | Voltage | Single 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

| oon bata | | | | | | | | |
|------------------------------------|---------------|---------|----------|----------|---------------|---------|----------|----------|
| | 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 |



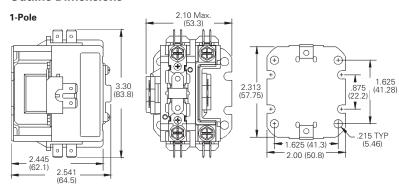
Ordering Information



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



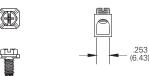
Termination Options



5/16 Hex Head

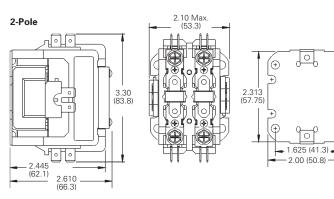
#12 Washer

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

253



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>: 3100-15Q14999