

3100-15U1999 Product Details



3100-15U1999

TE Internal Number: 8-1611007-6

 [Active](#)

Contactors

 [Converted to EU RoHS but not ELV Compliant](#)
([Statement of Compliance](#))

Product Highlights:

- Contactor Type = Definite Purpose
- Model 96
- 3100 Series
- AC Actuating System
- 1 Poles

Documentation & Additional Information

Product Drawings:

- None Available

Catalog Pages/Data Sheets:

- [Model 96 - 3100 Definite Purpose Contactor 1- or 2-p...](#) (PDF, English)

Product Specifications:

- None Available

Application Specifications:

- None Available

Instruction Sheets:

- None Available

CAD Files:

- None Available

Additional Information:

- [Product Line Information](#)

Related Products:

- [Tooling](#)

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:

- Contactor Type = Definite Purpose
- Model = 96
- Series = 3100
- Terminal Configuration = 10-32 Screw, Quick-Connect
- Wire Size (mm² [AWG]) = 16-8

Electrical Characteristics:

- [Actuating System](#) = AC
- Contact Rating = 25A
- [Coil - Rated Voltage \(VAC\)](#) = 208 - 240

Termination Features:

- Coil Termination = Quick Connect

Body Features:

- Torque = 25 in-lbs
- Arc Cover = Without

Contact Features:

- [Number of Poles](#) = 1
- Contact Base Material = Silver Cadmium Oxide

Housing Features:

- UL Flammability Rating = UL 94V-0

Configuration Features:

- [Contact - Arrangement](#) = 1 Form X, SPST-NO-DM with Shunt

Industry Standards:

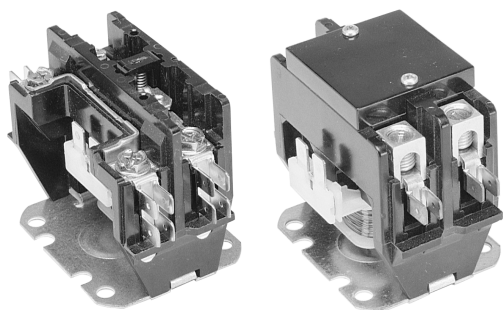
- [RoHS/ELV Compliance](#) = RoHS/Not ELV Compliant
- [Lead Free Solder Processes](#) = Not relevant for lead free process
- RoHS/ELV Compliance History = Converted to comply with RoHS not ELV directives

Packaging Features:

- Packaging Method = Loose Piece/Bulk

Other:

- Brand = Products Unlimited
- Comment = Stranding must be split for 8 AWG wire.



Model 96 - 3100 series

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

File E75492

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.

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.

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 Amps Rating	Maximum Horsepower	
					Voltage	Single Phase
20	2	240/277	120	30	120	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	2	240/277	150	35	120	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	1	240/277	240	50	120	2
		480	200	50	240	3
		600	160	50		
40	2	240/277	240	50	120	2
		480	200	50	240	3
		600	160	50		

Coil Data

	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

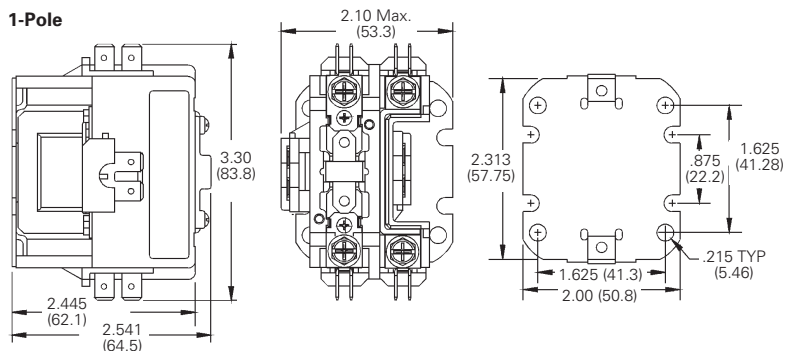
Typical Part No. >		3100	-	20	Q	6	999
1. Series: 3100 = 1- or 2-pole, 20-40 FLA contactor							
2. Packaging: Y = Individual Pack - = Bulk Pack A-ZZZ = Customer specific information (assigned by factory)							
3. Pole Configuration: 10 = 1 Form X (SPST-NO-DM) 15 = 1 Form X (SPST-NO-DM) with Shunt 20 = 2 Form X (DPST-NO-DM)							
4. Coil Voltage (50/60 Hz.): Q = 24VAC T = 120VAC U = 208/240VAC P = 100VAC S = 200VAC V = 277VAC							
5. Contact Ratings (Inductive): 1 = 25 FLA on 1-pole models 3 = 20 FLA on 2-pole models 2 = 30 FLA on 1-pole models 5 = 25 FLA on 2-pole models 14 = 35 FLA on 1-pole models 6 = 30 FLA on 2-pole models 19 - 40 FLA on 1-pole models 18 = 40 FLA on 2-pole models							
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.

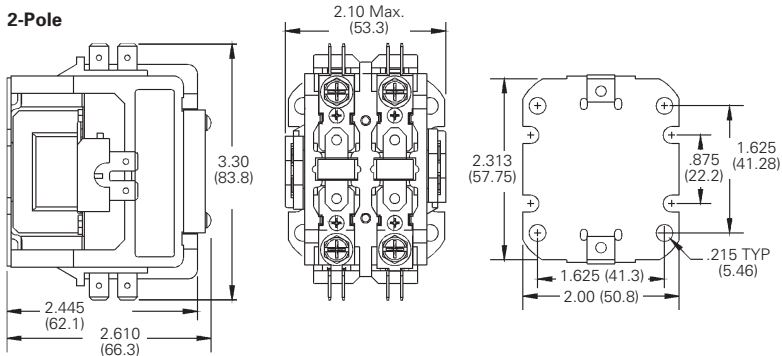
3100-15Q2999	3100-20Q6999	3100-20Q18999CL
3100-15T2999	3100-20T6999	3100-20T18999CL
3100-15U2999	3100-20U6999	3100-20U18999CL

Outline Dimensions

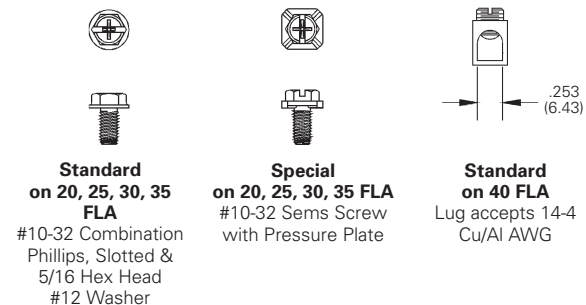
1-Pole



2-Pole



Termination Options



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.