



# Model 98 - 3100 series

# Definite Purpose Contactor 3-pole, 20-40 FLA AC Coil

**c %**us File E75492

**(€** 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

- · 3-pole contactors.
- · Industry-standard mounting plate.
- Optional interlock/auxiliary switches available.
- Manual test button is standard.
- · Coil dust cover helps keep dust and dirt away from magnet and coil area.
- Double E magnet system provides optimal performance.

# Contact Data @ 25°C

**Arrangements:** 3 Form X (3PST-NO-DM). **Maximum Ratings:** See Contact Ratings Table.

Material: Silver Cadmium Oxide.

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: 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, standard.

A 0.250" quick connect and a #6-32 screw, optional.

Arc Cover: Optional on 20-30 FLA models, standard on 40 FLA models. Weight: 16 oz. (455 g) approximately

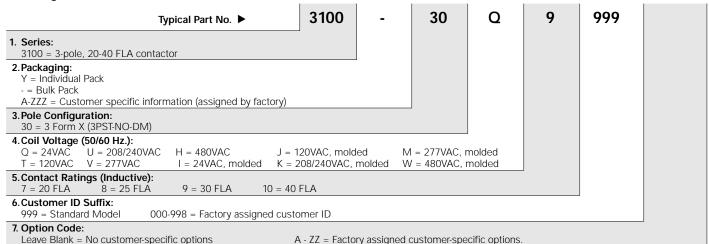
#### **Contact Ratings**

Full Number		Line	Locked	Resistive	Maximum Horsepower		
Load Amps	of Poles	Voltage	Rotor Amps	Amps Rating	Voltage	Single Phase	Three Phase
		240/277	120	30	110/120	1.5	-
20	3	480	100	30	200/240	3	7.5
		600	80	30	480/600	-	7.5
					110/120	2	-
		240/277	150	35	200/208	-	7.5
25	3	480	125	35	240/277	5	10
		600	100	35	480	-	15
					600	-	20
					110/120	2	-
		240/277	180	40	200/208	-	10
30	3	480	150	40	240/277	5	10
		600	120	40	480	-	15
					600	-	20
			·		110/120	3	-
		240/277	240	50	200/208	-	10
40	3	480	200	50	240/277	7.5	10
		600	160	50	480	-	20
					600	-	25

#### **Coil Data**

Nominal Coil Voltage	24	120	208/240	277	480
Maximum Pickup Volts	18	88	177	220	384
Drop-Out Volts Range	6 -15	20 - 70	40 - 140	65 - 185	150 - 270
Nominal Inrush VA @ 50 Hz	60	60	60	60	65
Nominal Inrush VA @ 60 Hz	53	53	53	53	53
Nominal Sealed VA @ 50 Hz	6.0	6.0	6.0	6.0	6.0
Nominal Sealed VA @ 60 Hz	5	5	5	5	5
Nominal DC Resistance - Ohms	7	180	720	950	3100

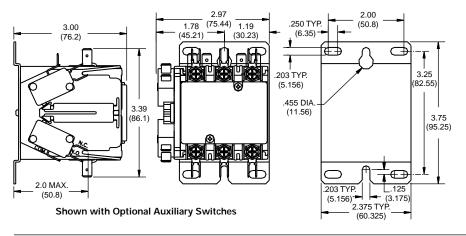
# **Ordering Information**



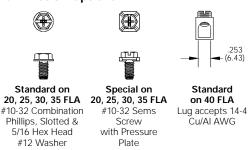
# Standard part numbers listed below are more likely to be available from stock.

3100-30O9999CY 3100-30U9999CY 3100-30T10999CG 3100-30T9999CY 3100-30Q10999CG 3100-30U10999CG

#### **Outline Dimensions**



# **Termination Options**

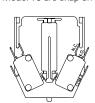


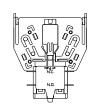
ORDERING NOTE: "Standard" terminals need not be specified in the "Ordering Information" chart above. "Special" terminals are offered on a special order basis. Special order items may be subject to extended leadtimes and significant minimum order quantities. Your Tyco Electronics sales engineer must consult with the factory before providing price and availability information regarding items with these options

### **Auxiliary Switches**

Various interlock / auxiliary switches are available for the Model 98 contactor. All auxiliary switches for the Model 98 are snap-on design, no tools required.







ONE SPDT **SWITCH** PER SIDE

TWO SPDT **SWITCHES** PER SIDE

1 N/O / 1 N/C

# Footnotes: Ratings of Auxiliary Interlocks / Switches

(1) Contact Rating Single Circuit NO or NC and two circuit NO/NC:

0 0	120V	240V	480V	600V
Amperes - Break	3.0	1.5	0.75	0.6
Amperes - Make	30	15	7.5	6
Amperes - Continuous	10	10	10	10

(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

#### Equipped with 0.250" (6.35) Quick Connect Terminals

Factory Modifications			Field Added Kits		
Description	Contact Config.		Kit Catalog	Number of	
	NO	NC	Number	Kits Required	
Single unit interlock	1	0	98220-303	1	
configurations listed.	0	1	98220-331	1	
Maximum of two.	1	1	98220-332	1	
(One on each side.)	2	0	98220-303	2	
	0	2	98220-331	2	
See footnote (1) for ratings.	2	2	98220-332	2	
SPDT Circuit	1	1	98220-337	1	
(Either one or two	2	2	98220-338	1	
switches per side.)	2	2	98220-337	2	
See footnote (2) for ratings.	4	4	98220-338	2	
SPDT Dry Circuit	1	1	98220-341	1	
0.1 amp max.	2	2	98220-340	1	
Gold Flashed Contacts	4	4	98220-340	2	

#### Equipped with #6-32 Screw Terminals & Saddle Clamps

			•		
Factory Modifications			Field Added Kits		
Description	Contact Config.		Kit Catalog	Number of	
	NO	NC	Number	Kits Required	
Single unit interlock	1	0	98220-303	1	
configurations listed.	0	1	98220-331	1	
Maximum of two.	1	1	98220-332	1	
(One on each side.)	2	0	98220-303	2	
	0	2	98220-331	2	
See footnote (1) for ratings.	2	2	98220-332	2	

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