

# Model 98 - 3100 series

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

**File** E75492 **G** 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:  $-40^{\circ}C - +65^{\circ}C$  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.

#### **Contact Ratings**

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.-Ibs.

# 40 FLA Models

Type: Box Lug with dual 0.250" (6.35 mm) quick connects. Wire Size: 14-4 Cu/AI 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

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

#### tyco Electronics

#### Catalog 1308242 Issued 3-03 (PDF Rev. 3-04)

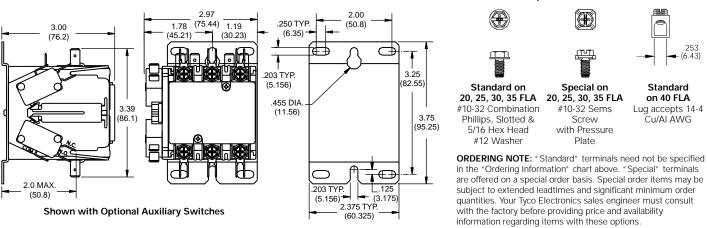
# PRODUCTS UNLIMITED

Ordering Information				1			
Typical Part No. 🕨	3100	-	30	Q	9	999	
1. Series: 3100 = 3-pole, 20-40 FLA contactor	_						
2.Packaging: Y = Individual Pack - = Bulk Pack A-ZZZ = Customer specific information (assigned by factory)		_					
3.Pole Configuration: 30 = 3 Form X (3PST-NO-DM)							
	120VAC, molo 208/240VAC,		M = 277VAC, 1 W = 480VAC,				
<b>5.Contact Ratings (Inductive):</b> 7 = 20 FLA 8 = 25 FLA 9 = 30 FLA 10 = 40 FLA							
6.Customer ID Suffix: 999 = Standard Model 000-998 = Factory assigned customer ID							
7. Option Code:   Leave Blank = No customer-specific options ////////////////////////////////////	A - ZZ = Facto	ory assigned	l customer-spe	ecific options.			

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

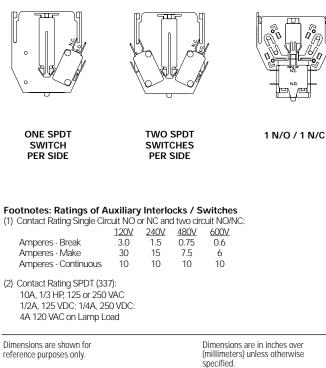
3100-30Q9999CY 3100-30U9999CY 3100-30T10999CG 3100-30T9999CY 3100-30Q10999CG 3100-30U10999CG

## **Outline Dimensions**



# 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.



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

**Termination Options** 

Factory N	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 N	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	

Specifications and availability subject to change.