



Model 98 - 3100 series

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

c**Al**us File E75492

C € 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

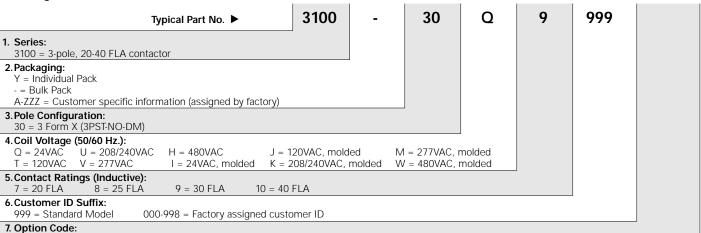
| Full | Number | | | | Maximum Horsepower | | |
|--------------|-------------|-----------------------|-------------------|----------------|---|-------------------------|---------------------------|
| Load Amps | of Poles | Voltage | Rotor Amps | Amps Rating | Voltage | Single Phase | Three Phase |
| 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 |

Electronics

Ordering Information



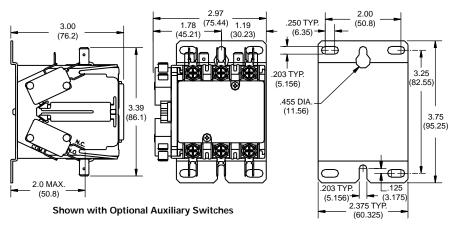
A - ZZ = Factory assigned customer-specific options.

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

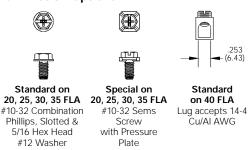
3100-30O9999CY 3100-30U9999CY 3100-30T10999CG 3100-30T9999CY 3100-30Q10999CG 3100-30U10999CG

Leave Blank = No customer-specific options

Outline Dimensions



Termination Options

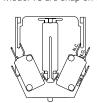


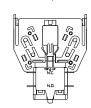
ORDERING NOTE: "Standard" terminals need not be specified in the "Ordering Information" chart above. "Special" terminals are offered on a special order basis. Special order items may be subject to extended leadtimes and significant minimum order quantities. Your Tyco Electronics sales engineer must consult 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 TWO SPDT **SWITCH SWITCHES** PER SIDE 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:

| | 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 M | 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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H-8/S11 H-8/S68 ACC530U20 ACC730U30 RF303ZM4-12 DH18DA 1423675-8 AR4-15F13-C01 AR7-41F11 AVR907 15732A200
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