

Features

• Up to 20 amp switching in SPST-NO and 13.3 amp in SPDT arrange-

· Washable, plastic sealed case available.

Meets UL 873 and UL 508 spacing – 1/8" through air, 1/4" over surface.
 Load connections made via 1/4" Q. C. terminals.

· Choice of UL Class B or F insulation system.

• Well suited for various industrial, commercial and residential applications.

Contact Ratings @ 23°C

Arrangements: 1 Form A (SPST-NO), 1 Form B (SPST-NC) and 1 Form C

(SPDT).

Material: Silver-cadmium oxide.

Mechanical Life: 10 million operations, at 300 ops/minute.

Electrical Life: 100,000 operations at factory rated load, 6 ops/minute.

Minimum Contact Load: 1A @ 5VDC or 12VAC Initial Contact Resistance: 50 milliohms @ 100mA, 6VDC).

Contact Ratings @ 23°C with relay properly vented. Remove tape from vent hole after soldering and cleaning.

Factory Contact Ratings

Voltage	1 Form A	1 Form B	1 Form C	
			(NO)	(NC)
240VAC	20A	10A	13.3A	6.7A
28VDC	20A	6.7A	13.3A	6.7A

UL/CSA Contact Ratings

Voltage	Load Type	1 Form A	1 Form B	1 Form C	
				(NO)	(NC)
240VAC	General Purpose	30A	15A	20A	10A
240VAC	Resistive *	30A	15A	20A	10A
240VAC	Motor	2 HP	1/2 HP	2 HP	1/2 HP
120VAC	Motor	1 HP	1/4 HP	1 HP	1/4 HP
240VAC	LRA/FLA **	80/30	30/10	50/20	20/7
120VAC	LRA/FLA	98/22	-	-	-
120VAC	Tungsten *	TV5	TV3	TV5	TV3
277VAC	Ballast	10A	3A	10A	3A
28VDC	Resistive	20A	10A	20A	10A

Initial Dielectric Strength

Between Open Contacts: 1,500V rms, 1 minute. Between Contacts and Coil: 1,500V rms, 1 minute.

Initial Insulation Resistance

Between Mutually Insulated Elements: 109 ohms, min., @ 500VDC,

23°C and 50% R.H.

Coil Data @ 23°C

Voltage: 12 to 220VAC

Nominal Coil Power: 2.0VA, (approx.).

Maximum Coil Temperature (4): Class B: 130°C.

Class F: 155°C.

Duty Cycle: Continuous.

491 series

AC Coil 20 Amp PC Board or **Panel Mount Relay**

FII File E38802

File LR75282

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user 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.

Coil Data

DC Resistance ± 10% (Ohms)	Must Operate Voltage (Max.)	Must Release Voltage (Min.)					
26	10.2	1.8					
106	20.4	3.6					
2,750	93.5	16					
11,000	187	33					
	± 10% (Ohms) 26 106 2,750	±10% (Ohms) Voltage (Max.) 26 10.2 106 20.4 2,750 93.5					

Operate Data @ 25°C

Must Operate Voltage: 85% of nominal voltage or less. Must Release Voltage: 15% of nominal voltage or more. Operate Time (Including Bounce)§: 20 ms, max. Release Time (Including Bounce)§: 15 ms, max.

§ At or From Nominal Coil Voltage

Environmental Data

Storage Temperature Range: -40°C to 130°C. Operating Temperature Range(1): -55°C to +85°C.

Vibration, Operational: 0.065" (1.5mm) max. excursions from 10-55 Hz.

Shock, Operational: 10g for 11 ms.

Shock, Mechanical: 100g.

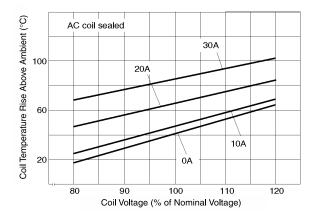
Mechanical Data

Termination: Printed circuit and quick connect terminals (4). Enclosures (all have 94V-0 flammability rating):

Open, unsealed dust cover or sealed case.

Weight: 1.2 oz. (33g) approx.

Coil Temperature Rise



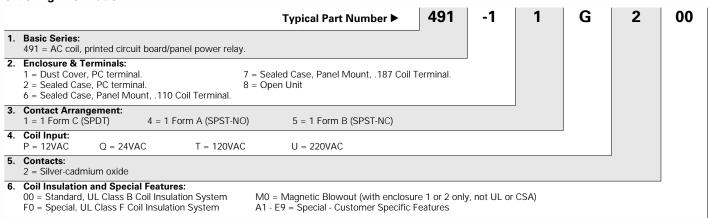
Notes

- (1) Operating ambient temperature must consider must operate voltage change over temperature, contact temperature rise, coil temperature rise (If coil is not allowed to cool) and maximum coil temperature.
- (2) Sealed relay terminals should not be bent.
- (3) Remove tape after cleaning process for optimum life of sealed relays.
- (4) Class B coils are UL systems approved for maximum coil temperature of 130°C, by change of resistance method. Class F coils are UL systems approved for maximum coil temperature of 155°C, by change of resistance method.

tyco Catalog 1308242

 Electronics
 Issued 3-03 (PDF Rev. 4-04)

Ordering Information



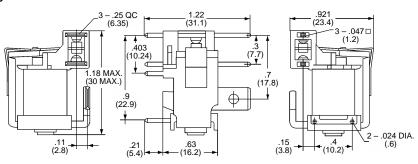
Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

 491-21T200
 491-24T200
 491-61T200
 491-64T200

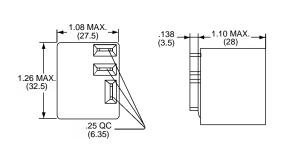
 491-21Q200
 491-61Q200
 491-64Q200

Outline Dimensions

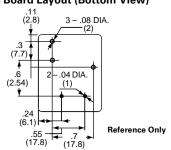
Open Style



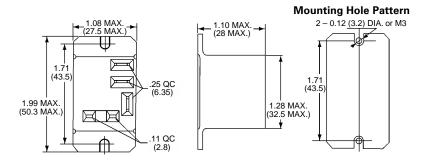
Sealed Case for PC Board Mounting



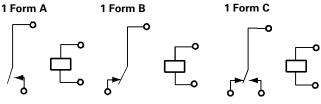
PC Board Layout (Bottom View)



Sealed Case for Panel Mounting



Wiring Diagrams (Bottom Views)



P&B