

TYPE 491



FEATURES:

- Meets UL508 and UL873 spacing requirements.
- Sealed type available.
- Quick connect available for fast installation.
- Multiple mounting options available.
- Contact rating 30A@240VAC.
- Ideal for use in appliances and where space is limited.
- UL File Listing E38802
- CSA File Listing LR75282

TYPE 491



TYPICAL APPLICATIONS

- Office machine
- Machine tool
- Home appliances

CONTACT DATA

Arrangement		1 Form A	1 Form B	1 Form C (NO)	1 Form C (NC)
Rated Load	240VAC	30A	15A	20A	10A
	28VDC	30A	10A	20A	10A
Material		AgCdO			
Max. Continuous Current		30A	15A	20A	10A
Max. Switching Voltage		277 VAC, 30 VDC			
Max. Switching Current		30A	15A	20A	10A
Max. Switching Power		8.31 KVA, 900W	4.155 KVA, 450W	5.54 KVA, 600W	2.77 KVA, 300W
Min. Load		1A, 5 VDC/12 VAC			
Initial Resistance		50m at 100 mA, 6 VDC			
Service Life	Mechanical	10 ⁷ operations at operating frequency of 300 ops/min			
	Electrical	10 ⁵ operations at operating rated load and operating frequency of 6 ops/min.			

UL/CSA CONTACT RATINGS

Voltage	Load Type	1 Form A	1 Form B	1 Form C (NO)	1 Form C (NC)
240 VAC	General Purpose	30A	15A	20A	10A
240 VAC	Resistive	30A	15A	20A	10A
240 VAC	Motor	2 HP	0.5 HP	2 HP	0.5 HP
120 VAC	Motor	1 HP	0.25 HP	1 HP	0.25 HP
240 VAC	LRA/FLA	80/30	30/10	50/20	20/7
120 VAC	LRA/FLA	98/22	N/A	N/A	N/A
120 VAC	Tungsten	TV 5	TV 3	TV 5	TV 3
277 VAC	Ballast	10A	3A	10A	3A
28 VDC	Resistive	20A	10A	20A	10A

CHARACTERISTICS

Operate time	DC: 15mS; AC:20 mS; max.
Release time	DC: 10mS; AC:15 mS; max.
Insulation resistance	1000 M , min. at 500 VDC, 50% RH
Dielectric strength	DC: 2500 V, 1 min. coil to contacts AC:1500 Vrms, 1 min. coil to contacts 1500 Vrms, 1 min. contact to contact
Shock resistance	10 g, 11 mS, functional; 100g, destructive
Vibration resistance	DA 1.5 mm, 10-55 Hz, functional
Power Consumption	DC: 1W; AC: 2 VA approx.
Ambient Temperature	-55 °C to +85 °C operating: -40°C to + 130°C storage
Weight	Approx. 33g

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COIL DATA

DC				AC			
Nominal Voltage (V)	Resistance () ± 10%	Must Operate Voltage max. (V)	Must Release Voltage Min. (V)	Nominal Voltage (V)	Resistance (w)	Must Operate Voltage Max. (V)	Must Release Voltage Min. (V)
5	27	3.75	0.5	12	26	10.2	1.8
6	40	4.5	0.6	24	106	20.4	3.6
9	97	6.75	0.9	110	2750	93.5	16
12	155	9	1.2	220	11000	187	33
24	660	18	2.4				
48	2560	36	4.8				
110	10330	82.5	11				

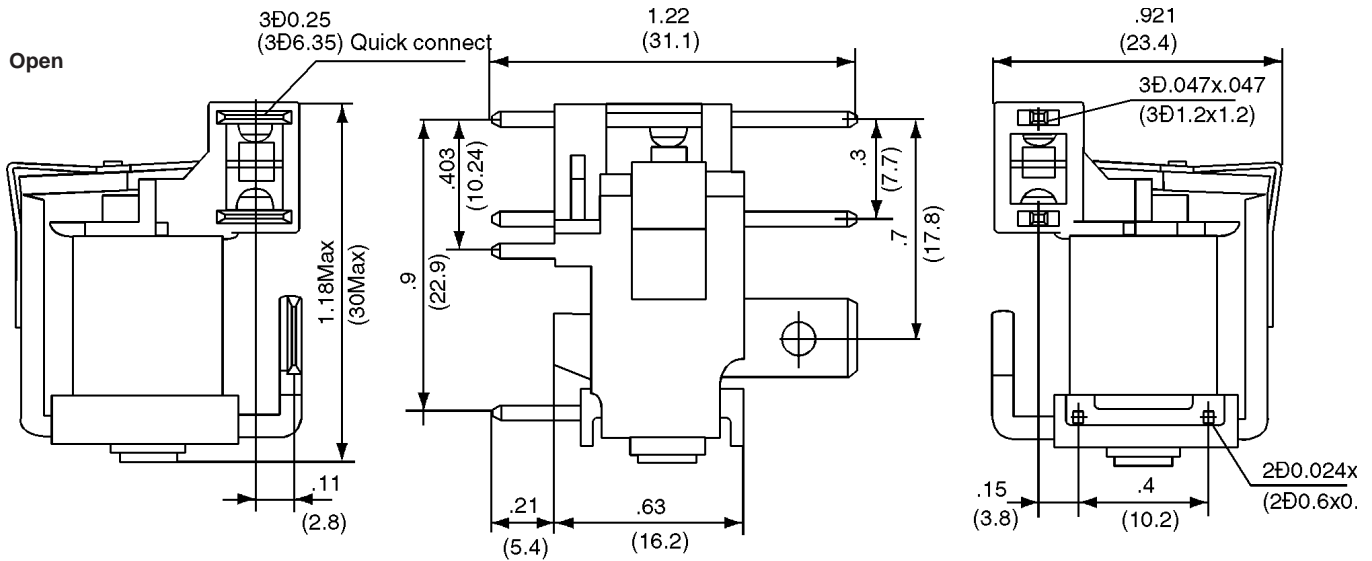
PART NUMBERING SYSTEM

Relay Type	Enclosure & Terminals	Contact Arr.	Coil Voltage		Contacts	Standard or Special
			DC	AC		
491	1-Dust Cover PC. Terminal 2-Epoxy Sealed Cover, P.C. Terminal 6-.110 Coil Terminal, Panel Mount Sealed 7-.187 Coil Terminal, Panel Mount Sealed 8-Open Unit	1-SPDT 4-SPST NO 5-SPST NC	E-5VDC A-6VDC G-9VDC B-12VDC C-24VDC D-48VDC F-110VDC	P-12VAC Q-24VAC T-120VAC	2-Silver Cadmium Oxide	00-Standard M0-Magnetic Blowout (with enclosure 1 and 2 only) A1 Thru E9-Special F0-Class "F"

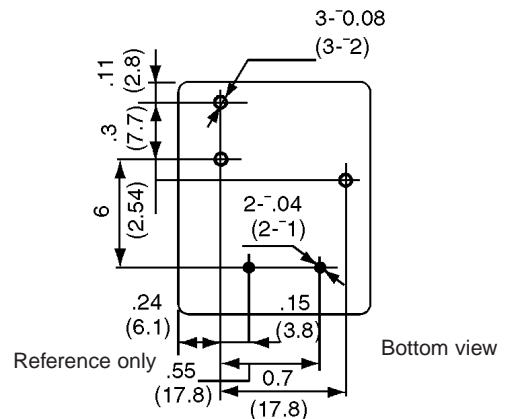
Example: 491-11G200

Stock item: 491-11B200, 491-21B200, 491-21C200, 491-21T200, 491-21Q200, 491-24B200, 491-24B200, 491-24C200, 491-24T200, 491-24Q200, 491-61B200, 491-61C200, 491-61T200, 491-61Q200, 491-64B200, 491-64C200, 491-64T200, 491-64Q200, 491-24B2M0, 491-24C2M0, 491-24D2M0

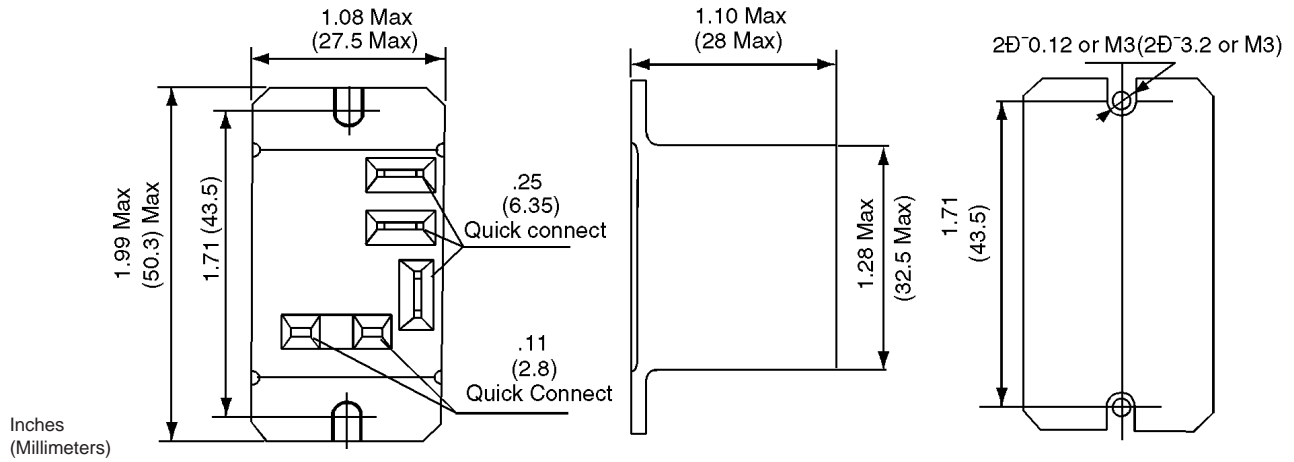
DIMENSIONS



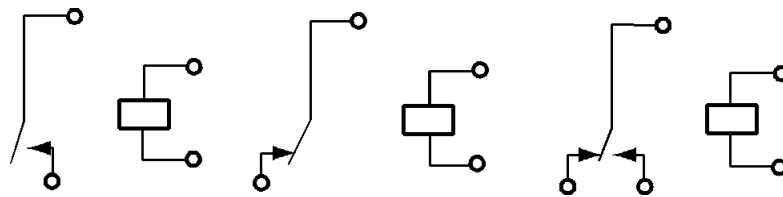
PCB LAYOUT (TYPICAL DIMENSION)



TYPE 491



WIRING



1 Form A

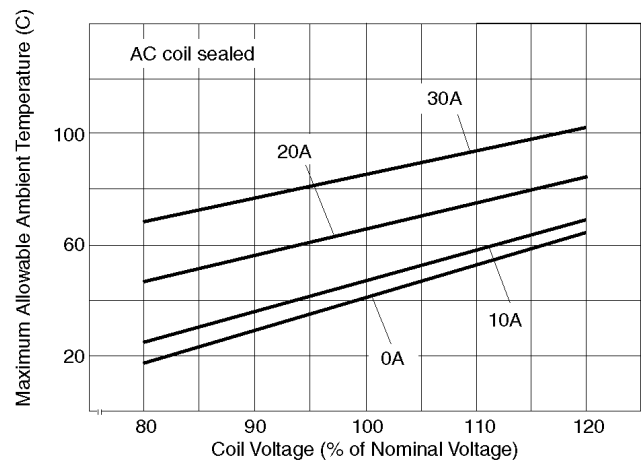
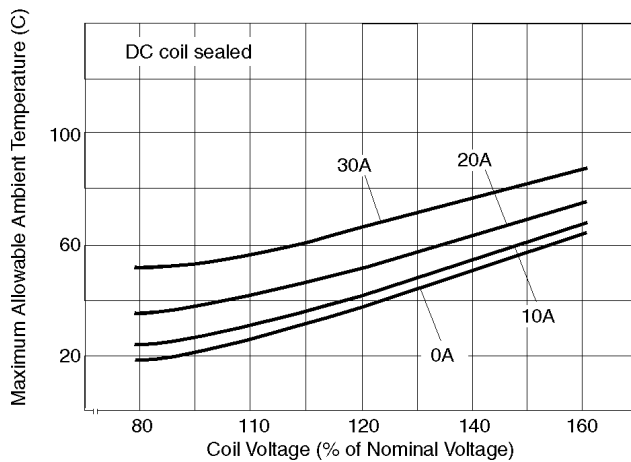
1 Form B

1 Form C

Bottom View

CURVES

Coil Temperature Rise



Notes:

1. All values, unless otherwise specified, are measured at ambient temperature of 23°C.
2. Standard contact material AgCdO, other contact materials for special applications upon request.
3. For maximum service life, remove tape before putting relays into service after immersion cleaning process.
4. AC coil resistance for reference only.
5. Electrical ratings of AC coil type are 66.7% of those of DC coil type as listed in contact data table.