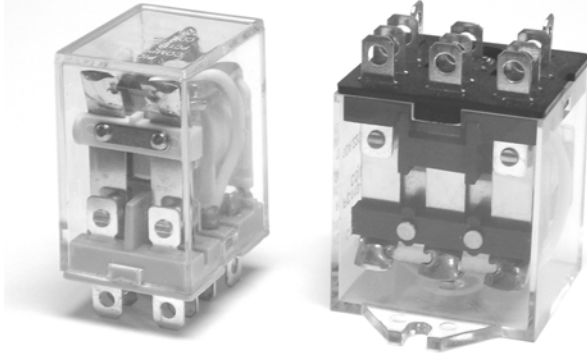


Minature 12 & 20 Amp General Purpose Relay

PC113



FEATURES

- 1, 2, 3 and 4 pole contact forms
- 12 & 20 amp switching capacity
- AC and DC coils available
- Available as Plug in or with PC pins
- Available with gold plated contacts
- UL Class B insulation standard
- Arc barrier equipped
- Available with top mounting flange
- **Now available Lead Free & RoHS Compliant**

UL/CUR RATINGS

Load Type	Voltage	1 Form C (SPDT)	2, 3 & 4 Form C (DPDT, 3PDT & 4PDT)
General Purpose	277 VAC	20 A	10 A
	250 VAC	20 A	12 A
	28 VDC	20 A	12 A
Motor	125 VAC	1/2 HP	1/2 HP
	250 VAC	1/2 HP	1/2 HP
Max. Switching Power		3750 VA 420 W	3000 VA 336 W



File # E86876

CONTACT DATA

Material		AgCdO (Silver Cadmium Oxide)
Initial Contact Resistance		50 milliohms max @ 1A, 6VDC
Service Life	Mechanical	1 X 10 ⁷ Operations
	Electrical	1 X 10 ⁵ Operations

CHARACTERISTICS

Operate Time	25 ms. Max.
Release Time	25 ms. Max.
Insulation Resistance	1,000 megohms min, at 500VDC, 50%RH
Dielectric Strength	1500 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts 1000 Vrms, 1 min. between contact poles
Shock Resistance	10 g, 11ms, functional; 100 g, destructive
Vibration Resistance	DA 1.5mm, 10-55 Hz
Power Consumption	1 & 2 Pole DC .9 W, AC 1.2 VA, 3 Pole DC 1.4 W, AC 2.0 VA 4 Pole DC 1.5 W, AC 2.5 VA
Ambient Temperature Range	-55 to 70 C, -55 to 130 C storage
Weight	37 grams (1 & 2C), 50 grams (3C), 70 grams (4C)

ORDERING INFORMATION

Example: PC113	-3C	-P	-C1	-120A	-LD	-X
Contacts: 1A, B or C; 2A, B or C 3A, B or C; 4A, B or C						
Terminal Type Nil: Solder Lugs; P: PC Pins						
Case Style Nil: Plain Case; C1: Flange Mount Case						
Coil XXXA: AC Coil; XXXD: DC coil						
Options Nil: None; G: Gold Plated Contacts; L: LED indicator; D: Internal Diode						
RoHS Compliant Nil: Not RoHS, -X: RoHS Compliant						

Note: LED polarity is positive on terminal 8 negative on terminal 7

COIL DATA
1 and 2 Pole

Voltage Type	Coil Voltage	Resistance ohms $\pm 10\%$	Coil Power	Must Operate Voltage Max.	Must Release Voltage Min.
DC	6	40	0.9 W	4.8	0.6
	12	160		9.6	1.2
	24	650		19.2	2.4
	48	2560		38.4	4.8
	110	13444		88.0	11.0
	220	53778		176.0	22.0
AC	6	11.5	1.2 VA	4.8	1.8
	12	46.0		9.6	3.6
	24	184		19.2	7.2
	48	735		38.4	14.4
	120	4550		96.0	36.0
	220 / 240	14400		176.0	66.0

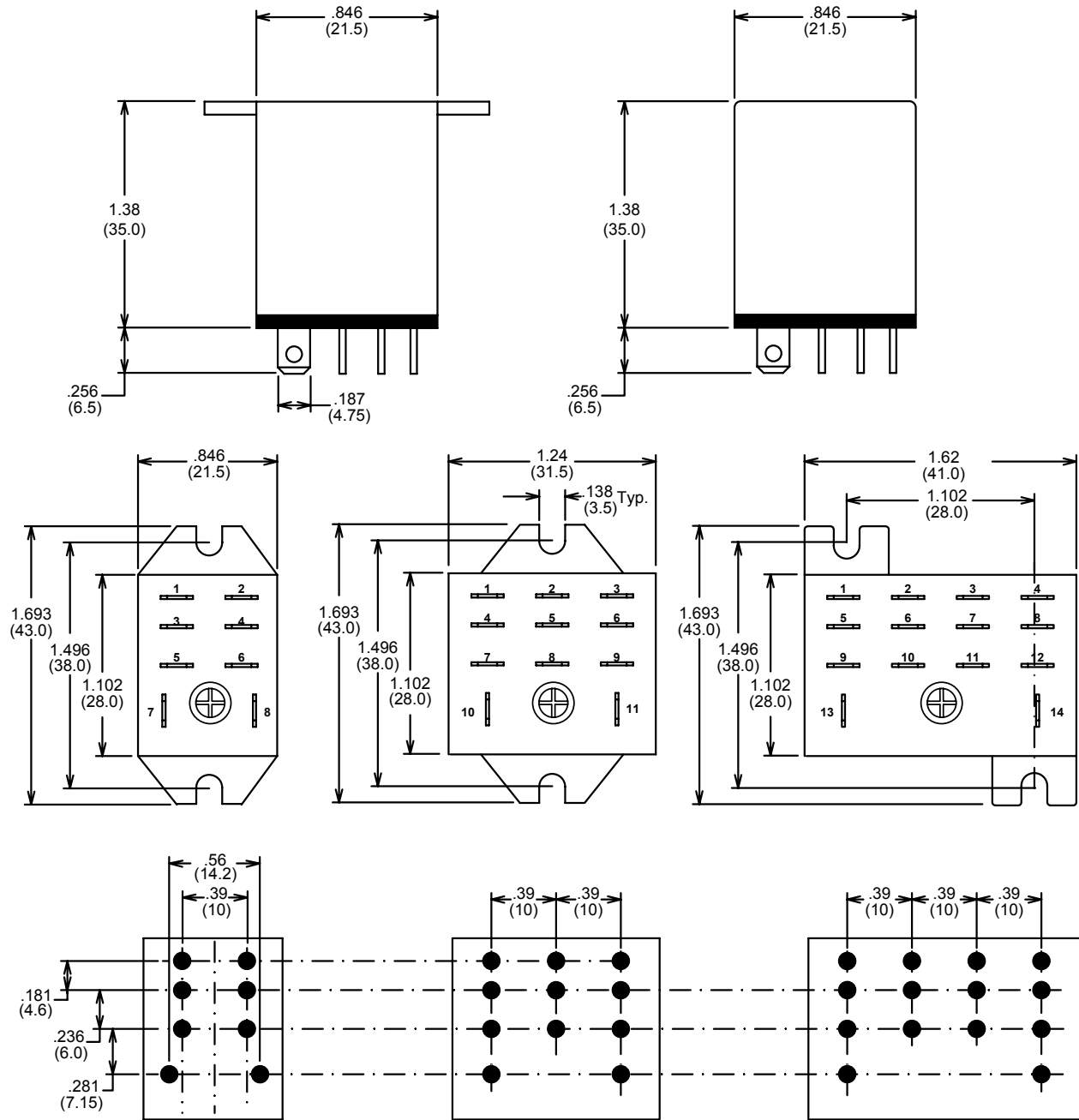
3 Pole

DC	6	25.7	1.4 W	4.8	0.6
	12	107		9.6	1.2
	24	410		19.2	2.4
	48	1700		38.4	4.8
	110	8500		88.0	11.0
	220	34571		176.0	22.0
AC	6	6.70	2.0 VA	4.8	1.8
	12	24.0		9.6	3.6
	24	100		19.2	7.2
	48	410		38.4	14.4
	120	2450		96.0	36.0
	220 / 240	8600		176.0	66.0

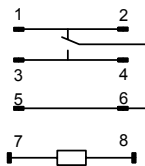
4 Pole

DC	6	25	1.5 W	4.8	0.6
	12	100		9.6	1.2
	24	350		19.2	2.4
	48	1600		38.4	4.8
	110	6900		88.0	11.0
	220	32267		176.0	22.0
AC	6	5.0	2.5 VA	4.8	1.8
	12	20		9.6	3.6
	24	78		19.2	7.2
	48	320		38.4	14.4
	120	2200		96.0	36.0
	220 / 240	6700		176.0	66.0

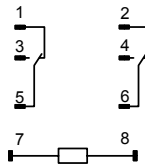




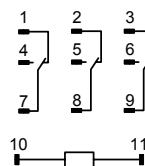
Wiring Diagram 1 Pole



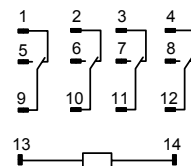
Wiring Diagram 2 Pole



Wiring Diagram 3 Pole



Wiring Diagram 4 Pole



Notes:
Tolerances $\pm .010$ unless otherwise noted

