

10 Amp 277 VAC Subminiature PCB Power "Sugar Cube" Relay

c**Al**us E86876

PC420



Lo	oad Type	Temp	All Forms, All Contacts	Cycles	
	Resistive (NO Only)	85°C	10 Amps @ 250 VAC	100,000	
		Version	10 Amps @ 277 VAC		
		-	10 Amps @ 250 VAC 10 Amps @ 277 VAC	100,000	
			15 Amps @ 125 VAC	20,000	

CHARACTERISTICS

UL / CUL Ratings

Insulation Resistance	250 megohms min, @ 500 VDC			
Distriction Observable	1,500 Vrms, 1 min. between coil and contacts			
Dielectric Strength	750 Vrms, 1 min. between open contacts			
Shock Resistance	100 m/s ^{2,} 11 ms			
Vibration Resistance	DA 1.5 mm, 10 - 55 Hz			
Terminal Strength	5N			
Solderability	260 °C for 5 seconds			
Ambient Temperature	-55 to 85 °C			
Relative Humidity	85% (at 40°C)			
Weight	9.5 grams			

FEATURES

- 10 Amp 277 VAC 100,000 Cycle @ 85°C UL Rating
- Designed for High Temperature Environments
- Low Coil Power
- IEC60335-1 Compliance Version Option
- Popular "Sugar Cube" Footprint
- Lead Free and RoHS Compliant
- Production Line Fully Automated
- 12 Amp Version Available See PC422

CONTACT DATA

Max Switchin	ng Power	2,770 VA			
Max. Switchi	ng Voltage	380 VAC			
Material		AgSnO ₂			
Contact Resi	stance	100 milliohms max			
	Mechanical	1 X 10 ⁷ Operations			
Service Life	Electrical	1 X 10 ⁵ Operations @ 10 Amps, 250 VAC / 277 VAC (85°C)			
		6 X 10 ⁴ Operations @ 12 Amps, 250 VAC / 277 VAC (85°C)			

ORDERING INFORMATION

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Example:		PC420	-1A	-12		S	F		-X	
Model:	PC420									
Contact Form:	1A, 1C		_							
Coil Voltage:	5, 6, 9, 12, 24			_						
Coil Sensitivity:	Nil : 360 mW				_					
Enclosure:	C: Dust Cover,	S1: Flux F	ree, S : S	ealed		_				
Insulation System:	Nil: 85°C, F: 10)5°C					•			
Contact Material:	Nil: AgSnO ₂							-		
RoHS & IEC 60335	5-1 Compliance:	-X: RoHS	S Only,						-	
		-X335: R	oHS & IF	C 60335	i-1					ı

Box Quantity: 2,000; Inner Box 1,000



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COIL DATA

Coil Voltage		Coil Power	Must Operate	Must Release	Coil Power	Onoroto Timo	Delegas Time	
(VDC)		Resistance ohms ± 10%	Voltage Max.	Voltage Min.	Consumption	Operate Time (ms)	Release Time (ms)	
Rated	Max	360 mW	(VDC)	(VDC)	(W)	(1115)	(1115)	
5	6.5	70	3.75	0.5		< 10	< 5	
6	7.8	100	4.5	0.6				
9	11.7	225	6.75	0.9	0.36			
12	15.6	400	9.0	1.2				
24	31.2	1,600	18.0	2.4				

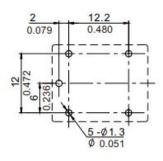
NOTES:

The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

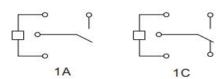
DIMENSIONS (mm/inches)

Side View **End View** 19.5max 15.6max. 0.768max. 0.614max. 0.153 ± 0.012 15.3max 0.602max 3.9 ± 0.3 0.016 2-1×0.5 0.039×0.020 0.055 3-1×0.4 12.2 0.039×0.016 0.079 0.480 12 0.472

Bottom View PC Board Layout



Wiring Diagram



Notes: Contact Form C shown On Contact Forms A Unused Pins are Omitted Tolerances ± .010 unless otherwise noted

