



# 842



## »» Features

- Low current and low profile miniature PCB Relay.
- Fine Ag contacts with rating 1A to 3A.
- UL/CUL approval.
- Sealed flux free and sealed washable types are available.
- Comply with RoHS-Directive 2011/65/EU.

## »» Type List

Terminal style	Contact form	Terminal layout	Designation	
			Flux tight	Sealed type washable
PCB terminal	1A (SPNO)	General	842-1A-C	842-1A-S
		Different	842A-1A-C	842A-1A-S
	1C (SPDT)	General	842-1C-C	842A-1C-S
		Different	842A-1C-C	842-1C-S

## »» Ordering Information

842   A - 1C - C - XXVDC  
 1      2      3      4      5

- |          |                              |          |                                                                             |
|----------|------------------------------|----------|-----------------------------------------------------------------------------|
| 1. 842   | -- Basic series designation  | 1B       | -- Single pole normally closed                                              |
| 2. Blank | -- Standard type             | 1C       | -- Single pole double throw                                                 |
| A        | -- Different terminal layout | 4. C     | -- Flux tight                                                               |
| 3. 1A    | -- Single pole normally open | S        | -- Sealed type washable                                                     |
|          |                              | 5. XXVDC | -- Coil voltage (please refer to the coil rating data for the availability) |

## »» Contact Rating

Resistive load	3A 125VAC , 3A 28VDC 1A 125VAC , 1A 28VDC <sup>(※)</sup>
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## »» Coil Rating (DC)

Rated voltage (V)	Rated current ±10% at 23°C (mA)	Coil resistance ±10% at 23°C (Ω)	Max. continuous voltage at 75°C	Pick up voltage(Max) at 23°C	Drop out voltage(Min) at 23°C	Power consumption at rated voltage
3	66.7	45	160% of rated voltage	75% of rated voltage	10% of rated voltage	approx. 0.2W
5	44.7	120				
6	33.3	180				
9	22.5	400				
12	17.1	700				
24	8.6	2,800				

## »» Specification

Contact material	AgNi alloy	
Contact resistance <sup>(1)</sup>	100mΩ Max.	
Operatetime <sup>(1)</sup>	10ms Max.	
Release time <sup>(1)</sup>	5ms Max.	
Insulation resistance <sup>(1)</sup>	100MΩ Min. (DC 500V)	
Dielectric strength <sup>(1)</sup>	Between open contact	: AC500V, 50/60Hz 1 min.
	Between contact and coil	842 : AC 500V, 50/60Hz 1 min. 842A: AC 1000V, 50/60Hz 1 min.
Vibration resistance	Operating extremes	10~ 50Hz, amplitude 1.5 mm
	Damage limits	10~50Hz, amplitude 1.5 mm
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 operations (frequency 18,000 operations/hr)
	Electrical	30,000 operations (※ 300,000 operations) (frequency 1,800 operations/hr)
Operating ambient temperature	-25~+75°C	
Weight	Approx. 4g	

Note : (1) initial value

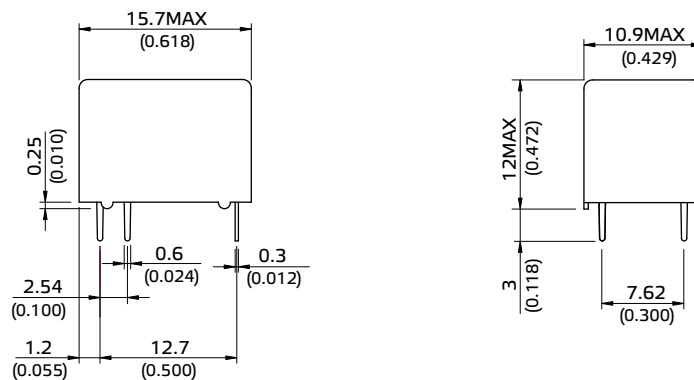
## »» Safety Approval

Certified	UL / CUL
File No.	E 74321

## »» Safety Approval rating

UL / CUL
3A 125VAC/30VDC

## »» Outline Dimensions

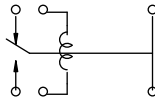




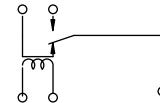
# 842

## Wiring Diagram BOTTOM VIEW

◆842

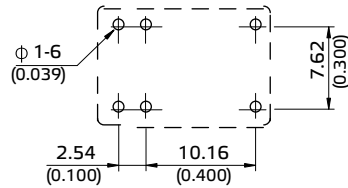


◆842A

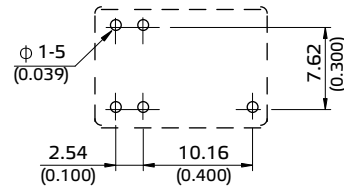


## PC Board Layout BOTTOM VIEW

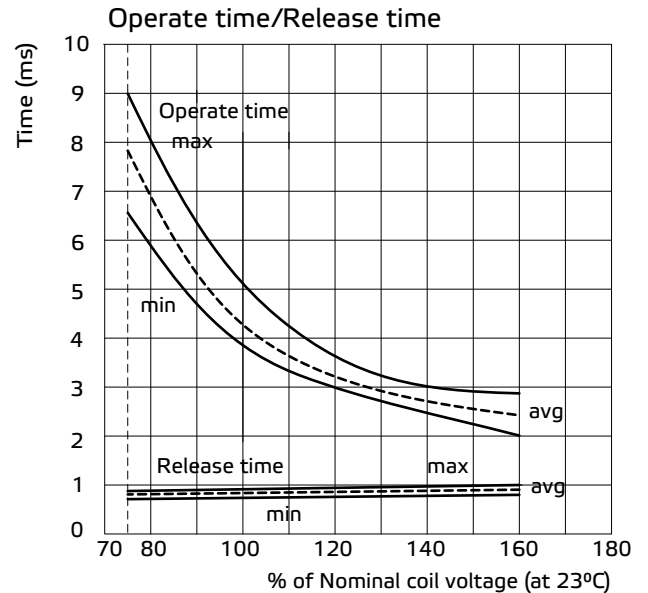
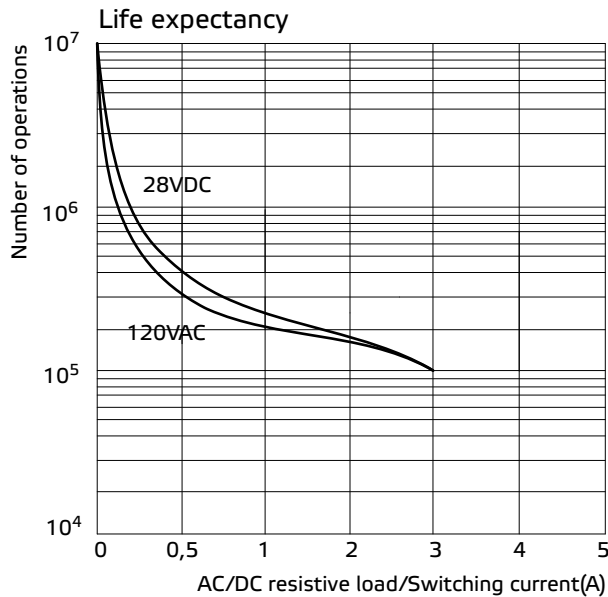
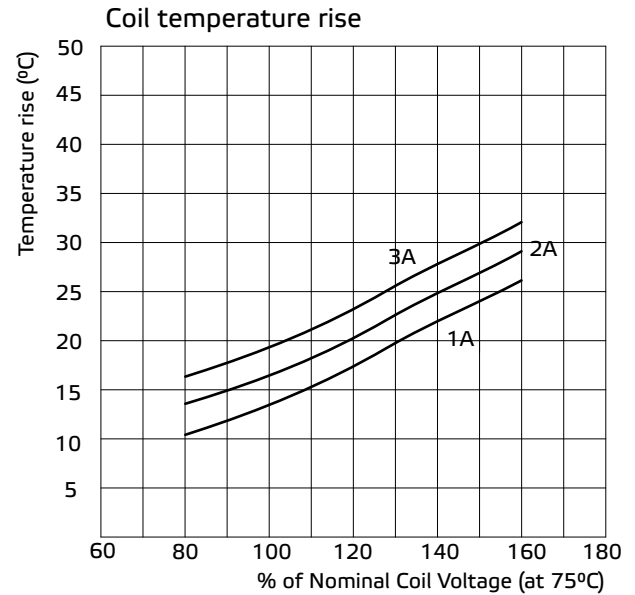
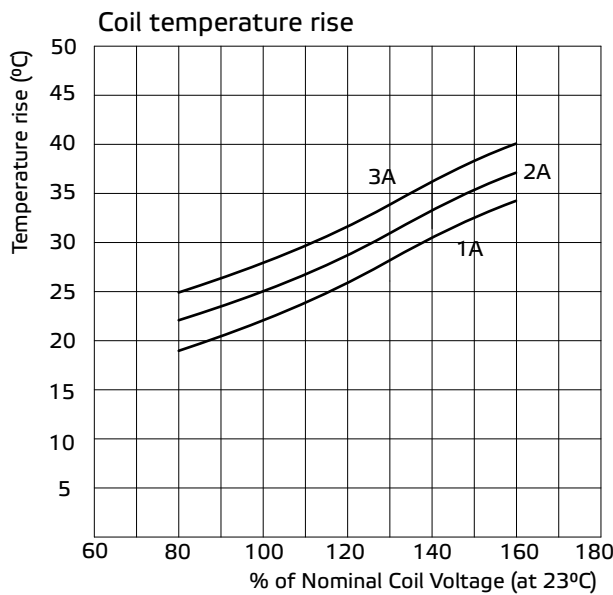
◆842



◆842A



## Engineering Data



**Disclaimer**

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of Song Chuan are reserved.