

>>> Features

- ☐ Low cost and low profile miniature PCB Relays.
- ☐ UL/CUL, TUV approved.
- ☐ High rating 12A SPDT, 8A DPDT.
- □ 3.5mm & 5mm pinning are both available.
- ☐ Standard coil 700mW and high sensitivity coil 530mW.
- □ SPNC, SPNO, SPDT, DPNO, DPNC, DPDT contact configurations.
- ☐ General purpose application including UPS, power supply controls, Home Appliances of heating element controls, motor control for access control, etc.
- ☐ PC board type socket & hold down clips can be offered with relay for automation control application.
- ☐ Comply with RoHS-Directive 2002/95/EC, and ELV-Directive 2000/53/EC.

>>> Type List

◆Standard Type

Terminal	Contact	High	UL Insulation	Designation		
style	form	capacity	system approval	Flux tight	Sealed type	Sealed type washable
	1A (SPNO)	Н		845H-1A-C	845H-1A-V	845H-1A-S
	1C (SPDT)	Н		845H-1C-C	845H-1C-V	845H-1C-S
	2A (DPNO)			845-2A-C	845-2A-V	845-2A-S
	2C (DPDT)			845-2C-C	845-2C-V	845-2C-S
	2A (DPNO)	Н		845H-2A-C	845H-2A-V	845H-2A-S
DCD torminal	2C (DPDT)	Н		845H-2C-C	845H-2C-V	845H-2C-S
PCB terminal	1A (SPNO)	Н	F	845H-1A-F-C	845H-1A-F-V	845H-1A-F-S
	1C (SPDT)	Н	F	845H-1C-F-C	845H-1C-F-V	845H-1C-F-S
	2A (DPNO)		F	845-2A-F-C	845-2A-F-V	845-2A-F-S
	2C (DPDT)		F	845-2C-F-C	845-2C-F-V	845-2C-F-S
	2A (DPNO)	Н	F	845H-2A-F-C	845H-2A-F-V	845H-2A-F-S
	2C (DPDT)	Н	F	845H-2C-F-C	845H-2C-F-V	845H-2C-F-S

◆High Sensitivity Type

	1A (SPNO)	Н		845HN-1A-C	845HN-1A-V	845HN-1A-S
	1C (SPDT)	Н		845HN-1C-C	845HN-1C-V	845HN-1C-S
	2A (DPNO)			845N-2A-C	845N-2A-V	845N-2A-S
PCB terminal	2C (DPDT)			845N-2C-C	845N-2C-V	845N-2C-S
	2A (DPNO)	Н		845HN-2A-C	845HN-2A-V	845HN-2A-S
	2C (DPDT)	Н		845HN-2C-C	845HN-2C-V	845HN-2C-S
	1A (SPNO)	Н	F	845HN-1A-F-C	845HN-1A-F-V	845HN-1A-F-S
	1C (SPDT)	Н	F	845HN-1C-F-C	845HN-1C-F-V	845HN-1C-F-S





	2A (DPNO)		F	845N-2A-F-C	845N-2A-F-V	845N-2A-F-S
DOD to make a	2C (DPDT)		F	845N-2C-F-C	845N-2C-F-V	845N-2C-F-S
PCB terminal	2A (DPNO)	Н	F	845HN-2A-F-C	845HN-2A-F-V	845HN-2A-F-S
	2C (DPDT)	Н	F	845HN-2C-F-C	845HN-2C-F-V	845HN-2C-F-S

>>> Ordering Information

845	Н	Ν	-	1A	-	F	-	С
1	2	3		4		5		6

 845 Blank H 	 Basic series designation Standard type High capacity type	2A 2B 2C	Double pole normally open Double pole normally closed Double pole double throw
3. Blank N	Standard type High sensitivity type	5. Blank F	Standard type Class F
4. 1A 1B 1C	Single pole normally openSingle pole normally closedSingle pole double throw	6. C V S	 Flux tight Sealed type Sealed type washable

>>> Contact Rating

Load type	(845H) 1A , 1B , 1C	(845) 2A , 2B , 2C	(※) (845H) 2A , 2B , 2C
Rated load (resistive)	10A 240VAC	5A 240VAC	8A 240VAC
Max. switching current	10A	5A	8A
Max. switching voltage	277VAC	277VAC	277VAC
Max. switching capacity	2400VA	1200VA	1920VA

>>> Coil Rating (DC) Standard Type

Rated	Rated current	Coil resistance	Max. continuous	Pick up	Drop out	Power consumption
voltage	±10 % at 23°C	±10 % at 23°C	voltage	voltage(Max)	voltage(Min)	at rated
(V)	(mA)	(Ω)	at 85°C	at 23°C	at 23°C	voltage
3	234	12.8				
5	139	36				
6	118	51				
9	78	116				
12	58	206	160 % of	75 % of	10 % of	
18	39	460	rated	rated	rated	approx. 0.7W
24	29	825	voltage	voltage	voltage	
36	19.5	1850				
48	15	3300				
60	11.7	5100				
110	6.4	17,230				

◆High Sensitivity Type

Rated	Rated current	Coil resistance	Max. continuous	Pick up	Drop out	Power consumption
voltage	±10 % at 23 °C	±10 % at 23°C	voltage	voltage(Max)	voltage(Min)	at rated
(V)	(mA)	(Ω)	at 85°C	at 23°C	at 23°C	voltage
3	176	17				
5	105	47.7				
6	88	68				
9	60	150				
12	44	275	170 % of	80 % of	10 % of	annray 0.53\M
18	29.5	610	rated	rated voltage	rated voltage	approx. 0.53W
24	22	1100	voltage	voitage	voitage	
36	14.8	2440				
48	11	4400				
60	8.8	6800				

>>> Specification

Contact material	AgSnO alloy				
Contact resistance (1)	100mΩ Max.	100mΩ Max.			
Operate time (1)	20ms Max.				
Release time (1)	10ms Max.				
Insulation resistance (1)	1000 MΩ Min. (DC 500)	V)			
	Between open contact	: AC 1000V , 50/60Hz 1 min.			
Dielectric strength (1)	Between contact and coil: AC 5000V, 50/60Hz 1 min.				
	Between contact circuits : AC 3000V , 50/60Hz 1 min. (for 2pole only)				
Vibration resistance	Operating extremes	10∼55Hz , amplitude 1.5 mm			
VIDIALIOIT TESISLATICE	Damage limit	10 \sim 55Hz , amplitude 1.5 mm			
Shock resistance	Operating extremes	10G			
Shock resistance	Damage limits	100G			
	Mechanical	10,000,000 operations			
Life expectancy	Wechanical	(frequency 18,000 operations/hr)			
Life expectancy	Electrical	100,000 operations (X) 50,000 operations			
	Electrical	(frequency 1,200 operations/hr)			
Operating ambient temperature	-40 °C∼+85 °C (no freezing)				
Weight	Approx. 14g				

Note: (1) initial value

>>> Safety Approval

Certified	UL / CUL	TUV
File No.	E88991	R09754104



845

>>> Safety Approval Rating(UL/CUL)

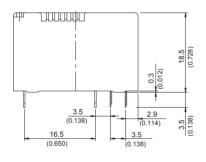
845 2A , 2B , 2C	845H 2A, 2B, 2C	845H 1A,1B,1C
5A 277VAC	8A 277VAC	12A 277VAC
5A 30VDC	8A 30VDC	12A 30VDC
1/8HP 125VAC/250VAC	1/4HP 125VAC/250VAC	1/2HP 125VAC/250VAC
TV-3 (NO contact only)	TV-3 (NO contact only)	TV-5 (NO contact only)

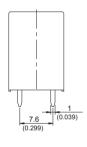
>>> Safety Approval Rating(TUV)

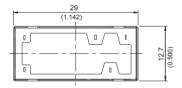
845 2A , 2B , 2C	845H 2A, 2B, 2C	845H 1A, 1B, 1C
5A 250VAC	8A 250VAC	12A 250VAC
5A 30VDC	8A 30VDC	12A 30VDC
3A 250VAC cosφ 0.4	5A 250VAC cosφ 0.4	10A 250VAC cosφ 0.4

>>> Outline Dimensions

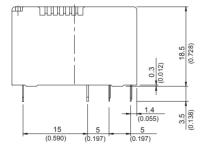
♦845 1P

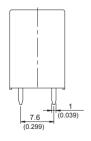


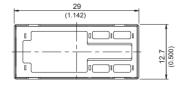




◆845 2P

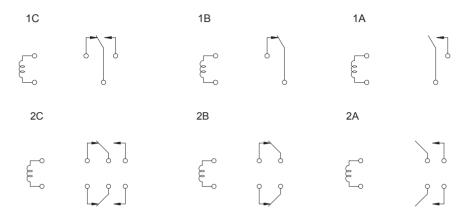






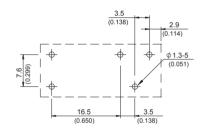
845

>>> Wiring Diagram BOTTOM VIEW

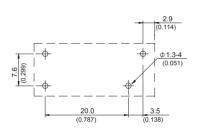


>>> PC Board Layout BOTTOM VIEW

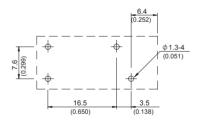
1C



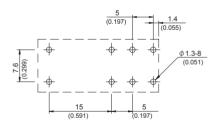
1A



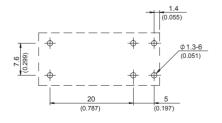
1B



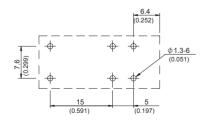
2C



2A



2B

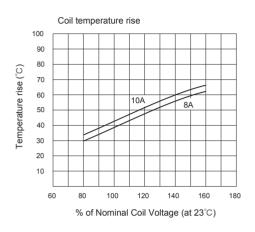


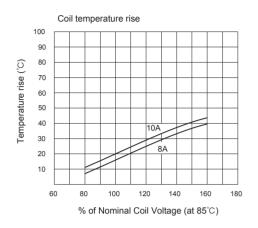


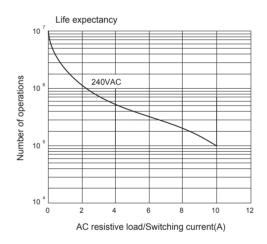


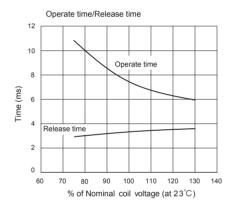
>>> Engineering Data

♦845H-1P









♦845-2P

