

Features

- 2 transfer contact configuration.
- Small size and light weight for high density PCB mounting.
- 150mW type available.

Safety Approval

UL, C-UL File No.: E179745

TUV File No.: R50142226

CQC File No.: CQC02001002119

Contact Capacity

Model	DSY2Y
Nominal switching capacity (res. load)	1A 120VAC
Max. switching current	2A
Max. switching voltage	125VAC
Max. switching power	120VA

Charateristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	100mΩ Max.	
Operate time (at nominal volt.)	6msec. Max.	
Release time (at nominal volt.)	4msec. Max.	
Initial insulation resistance	1,000MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC750V, 50/60Hz 1Min.	
	Between coil and contact: AC1,000V, 50/60Hz 1Min.	
Vibration resistance	Functional	10 ~ 55Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 55Hz at double amplitude of 1.5 mm
Shock resistance	Functional	20G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 10,800 ops./h)	100,000,000
	Electrical (at 1,800 ops./h)	100,000
Ambient temperature	-40°C ~ +85°C (no condensation)	
Unit weight	Approx. 4.6 g	

Coil Data (at 20°C)

Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ± 10% (Ω)	Max. allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
3	50	60	7	75 % of nominal voltage	5 % of nominal voltage	Approx. 0.15W
5	30	167	11.5			
6	25	240	13.8			
9	16.6	540	20.8			
12	12.5	960	27.7			
15	10	1,500	34.6			
24	6.25	3,840	55.2			

Coil Data (at 20°C)

Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ± 10% (Ω)	Max. allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
3	66.6	45	6	75 % of nominal voltage	5 % of nominal voltage	0.2W
5	40.0	125	10			
6	33.3	180	12			
9	22.2	405	18			
12	16.6	720	24			
15	13.3	1,125	30			
24	8.3	2,880	48			Approx. 0.36W
3	120.0	25	4.5			
5	72.0	69	8			
6	60.0	100	10			
9	40.0	225	14.5			
12	30.0	400	18.5			
15	24.0	625	22			
24	15.0	1,600	35.5			
48	12.0	4,000	56			Approx.0.58W

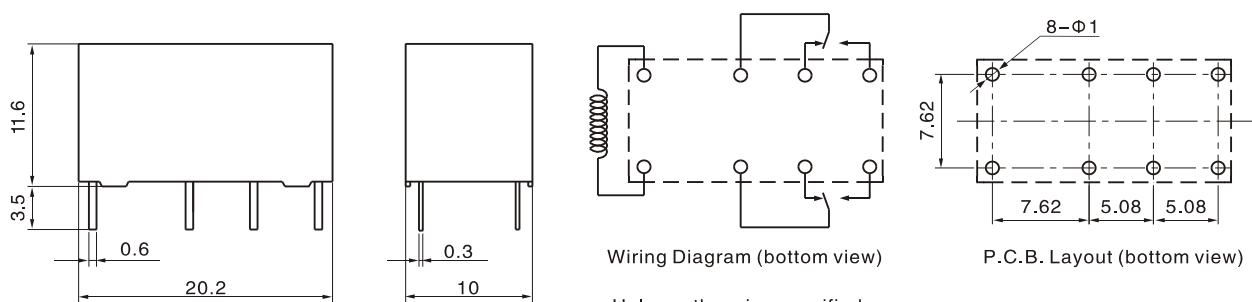
Safety Approval Ratings

Approval	CQC	TUV	UL/CUL
File No.	CQC02001002119	R50142226	E179745
Approved ratings	0.3A 125VAC	0.5A 120VAC 1A 24VDC	1A 120VAC 2A 30VDC

Ordering Information

Nomenclature						
DSY2Y	-S	-2	12	D	-F	-XX
Special Parameter: Nil-Standard type, Letter or number-Special requirement						
Insulation System: Nil-Standard, B-Class B, F-Class F						
Coil Power: D-0.36W, L-0.20W, H-0.15W, Nil-0.58W						
Coil Voltage (VDC): 03, 05, 06, 09, 12, 15, 24, 48						
Number of Poles: 2-2 Poles						
Protective Construction: S-Flux proofed, SH-Sealed type washable						
Type Designation: DSY2Y						

Outline Dimensions, Wiring Diagram, P.C. Board Layout (unit: mm)



Wiring Diagram (bottom view)

P.C.B. Layout (bottom view)

Unless otherwise specified:

If dimension < 1mm, tolerance: ± 0.2mm;

If dimension 1~5mm, tolerance: ± 0.3mm;

If dimension > 5mm, tolerance: ± 0.4mm.

Note: 1. Extended terminal dimension is dimension before soldering.

2. Tolerance of P.C.B. layout: ± 0.1mm.

Typical Applications

- Telecommunication equipment
- Office equipment
- Computer peripherals
- Security alarm system
- Medical equipment

Characteristic Curves

