



PS No.	PS-055-2020-001
Version	00
Date	2020/6/11

RELAY SPECIFICATION

/Customer

/Your Product Description

/Your Part Number

/Our Product Description RY-124D-S

/Our Part Number

/Customer Approval

/STAMPING AREA

/STAMPING AREA			

/ Issued by

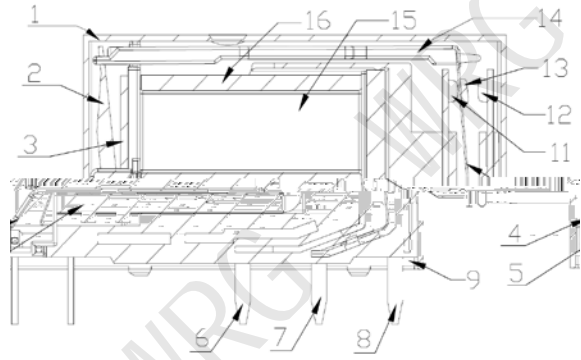
/ Issued by			

Relay SPECIFICATION	TYPE	RY-124D-S	Part Number	PS No.:
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1 /PARTS LIST

No.	Part	MATERIAL	/ TYPE/TREATMENT	UL FILE No. FLAME CLASS	Remark
1	Case	PBT	5010GN6-30M8AM 4130	E53664 E59481	UL94 V-0 UL94 V-0
2	Armature	Steel	Nickel Plated		
3	Core	Steel	Nickel Plated		
4	Hinge	Stainless Steel			
5	Yoke	Steel	Nickel Plated		
6	B B Terminal	Cu Alloy			
7	C C Terminal	Cu Alloy			
8	M M Terminal	Cu Alloy			
9	Base	PBT	5010GN6-30M8AM 4130	E53664 E59481	UL94 V-0 UL94 V-0
10	Movable Spring	Cu Alloy			
11	B B Contact	Ag Alloy			
12	M M Contact	Ag Alloy			
13	C C Contact	Ag Alloy			
14	Card	LCP	R850 E4008	E171666 E554705	UL94 V-0 UL94 V-0
15.	Wire	Polyurethane copper wire	3UEW 155(F Class)	E164502 E234867 E363385	
16.	Bobbin	PBT	5010GN6-30M8AM 4130	E53664 E59481	UL94 V-0 UL94 V-0



Construction Schematic

TYPE

Part Number

2. /SPECIFICATIONS

2.1 /COIL SPECIFICATIONS

2.1.1		24	VDC	23
	Rated Coil Voltage	24	VDC at 23	
2.1.2		0.17	W	23
	Nominal Power	0.17	W at 23	
2.1.3		3388	$\Omega \pm 10$	23
	Coil Resistance	3388	$\Omega \pm 10$	at 23
2.1.4		7.1	mA ± 10	23
	Nominal Current	7.1	mA ± 10	at 23
2.1.5		18	VDC	23
	Operate Voltage	18	VDC Max. at 23	
2.1.6		2		

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2.3.3	Electrical Life	NO:	3×10^4	, 1 9
		NO:	3×10^4	Cycle Min. @Room Temperature,Resistive Load.ON:OFF=1s:9s
		NC:	1×10^4	, 1 9
		NC:	1×10^4	Cycle Min. @Room Temperature,Resistive Load.ON:OFF=1s:9s
2.3.4	Mechanical Life		1×10^7	1×10^7 Cycle Min. @no load
2.3.5	Coil Temperature Rise:		70K Max.	(110% 85
			70K Max.	(Coil Voltage:110%,Rate Load, Environmental Temperature:85
2.3.6	Temperature		40 85	
			40 85	@no condensation
2.3.7	Humidity		5 85%	RH
			5 85%	RH @no condensation
2.3.8	Vibration		10 55	Hz 1.5mm
		Mechanical	10 to 55	Hz, 1.5mm double amplitude
		Operational	10 to 55	Hz, 1.5mm double amplitude
2.3.9	Shock		980	m/s^2 Min 100G
		Mechanical	980	m/s^2 Min 100G approximately)
		Operational	49	m/s^2 Min 10G
		49	m/s^2 Min 10G approximately)	
2.3.10	Weight About		5	g
2.3.11	Solder ability		5s	@ 260°C ()
			5s	@ 260°C (wave soldering)
2.4	/TERMINAL CHARACTERSITICS			
2.4.1	Terminals strength		10 /10	10N 10s,Thereshall be no abnormalities. (The curving of the terminal shall be acceptable)
2.4.2	Terminal solderbility		260±5	3s 90%
			260±5	3s In Case of lead lead free solder, 90% of the dipped portion shall be soldered.
2.4.3	Soldring Heat Resistance		5s @ 260°C,	3mm
			5s @ 260°C,There shall be no abnormalities. (wave soldering)	
2 5	/Temperature Resistance			
2.5.1	Heat Resistance		(85±5	16h 2h
			(85±5)	,16h,Room Temperature:2h,There shall be no abnormalities.
2.5.2	Cold Resistance		(-40±2	16h 2h
			(-40±2)	,16h,Room Temperature:2h,There shall be no abnormalities.
2.6	/Moisture Resistance		(-40±2	RH:90% 95%,16h 2h
				≥50MΩ 500VDC
			(-40±2	RH:90% 95%,16h Room Temperature:2h There shall be no abnormalities.Insulation Resistance: 50MΩ(500VDC)

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2.7 SAFETY REQUIREMENTS

2.7.1 UL UL & C-UL
UL UL & C-UL

File No.:



2.7.2 CQC
CQC

Certificate No.:



2.7.3 TUV
TUV

Certificate No.



2.7.4 ROHS REACH

The product meets the requirements of ROHS & REACH.

3. Mark Layout

Batch No. Identification:

H

1 Manufactory

Blank Shenzhen H Huangshan

2 Year

The last two digits of the year.

3 Week

Production of the current week.

4 Lot No.

A,B,C,.....Z OR AA,BB,CC,.....ZZ

Printing laser printing

For reference only.

Relay SPECIFICATION	TYPE	RY-124D-S	Part Number	PS No.:										
4 /Ordering Information				PS-055-2020-001										
<u>RY - 1 24 D - S</u>				Ver										
<table border="0"> <tr> <td>Model designation</td> <td>RY</td> </tr> <tr> <td>Number of poles</td> <td>1: 1 1 pole</td> </tr> <tr> <td>Coil voltage</td> <td>24: 24V</td> </tr> <tr> <td>Coil Power</td> <td>D.O. 17W</td> </tr> <tr> <td>Enclosure type</td> <td>S: Sealed</td> </tr> </table>				Model designation	RY	Number of poles	1: 1 1 pole	Coil voltage	24: 24V	Coil Power	D.O. 17W	Enclosure type	S: Sealed	00
Model designation	RY													
Number of poles	1: 1 1 pole													
Coil voltage	24: 24V													
Coil Power	D.O. 17W													
Enclosure type	S: Sealed													
5 /Others														
5.1 Unless otherwise explicitly stated, the standard environment conditions for measurement or testing are listed as following:														
5.1.1 23±5 Ambient temperature is 23±5														
5.1.2 96±10%kPa Atmospheric pressure is 96±10%kPa														
5.1.3 25% 75% RH Relative humidity is 25% 75% RH														
5.2 Unsealed relays should prevent flux or contamination into the relay.														
5.3 /Sealed relay														
5.3.1 Regarding the sealed relays, If cleaning is necessary after welding, please contact us.														
5.3.2 It will be recommendable to make washing process in possible short time with normal room temperature solution. Washing process by hot water is not recommendable for plastic cased relay as the water immersion-problem into relay may be caused.														
5.3.3 Ultraonic washing machine's cleaning for plastic cased relay is not recommendable as the relay's contact may be slightly stuck by ultrasonic wave energy.														
5.4 To avoid using the relays under strong magnetic field because it will change the parameters of relay such as pull-in and drop-out voltage.														
5.5 To maintain the performances of relays, please do not make the relay drop or be shocked strongly. Suggest that the relays dropped not be used.														
/Remark														
Chinese version is the standard one,English version is only for information.														
/<END>														

