

SPECIFICATION SHEET

SPECIFICATION SHEET NO.	N0423-Y3USS112LM0L01
DATE	April. 23, 2021
REVISION	A0
DESCRIPITION	Sealed Subminiature High Power Relay Y3U series, L21.0*W16.0*H21.8mm, 4 Pins Material of contact: Silver Alloy, Contact form: 1A (C/O) Coil power: 0.36 W, Switching current: 20A Max Nominal voltage 12 VDC Package: 100pcs/inner box , 1000pcs/Carton in Bulk ROHS III and REACH Compliant
CUSTOMER	
CUSTOMER PART NUMBER	
CROSS REF. PART NUMBER	
ORIGINAL PART NUMBER	Y3U-SS-112LM
PART CODE	Y3USS112LM0L01

VENDOR APPROVE

Issued/Checked/Approved







DATE: Apr.23, 2021

CUSTOMER APPRO	٧	Έ
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DATE:



SEALED SUBMINIATURE HIGH POWER RELAY Y3U SERIES

MAIN FEATURE

• Material of contact: Silver Alloy, Contact Form: 1A (C/O)

• Coil power: 0.36W

• Switching current: 20A Max.

• Nominal voltage 12 VDC

• Cross main competitors parts HF152 and more

• RoHS/RoHS III compliant

APPLICATION

• Office equipment and Security alarm system

• Home Appliance Telecommunication Equipment

• Automatic electric controlled window, automotive antenna, door lock, etc.

PART CODE GUIDE

RFQ
Request For Quotation

Y3U	SS112LM0	L	01
1	2	3	4

1) Y3U: Part family Code for Sealed Subminiature High Power Relay, L21.0*W16.0*H21.8mm, 4 Pins

2) SS112LM0: Type code for original part number SS-112LM

3) L: Thru Hole type, Package: 100pcs/inner box , 1000pcs/Carton

4) 01: Internal control code, 2 letter or digits

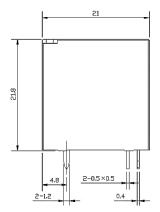
SEALED SUBMINIATURE HIGH POWER RELAY Y3U SERIES

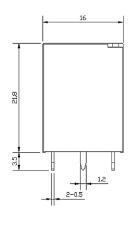
DIMENSION (Unit: mm, Tol: +/-0.4mm Max.)

Image for reference

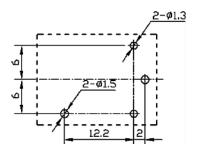


Y32F





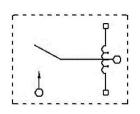
Wiring Diagram (Bottom View)



Marking Sample



PCB Layout (Bottom View)





SEALED SUBMINIATURE HIGH POWER RELAY Y3U SERIES

GENERAL PARAMETERS

Parameter	Part No. Symbol	Value
Original Manufacturer	Y	YuanZe Relay
Holder Type	3U	Size L21.0*W16.0*H21.8mm, 4 Pins
Enclosure	SS	Flux-tight
Contact Pole	1	1 Pole
Nominal voltage	12	12V
Coil Nominal Power and Contact Rating	L	Standard coil power, 0.36W
Contact arrangement	MO	1 Form A
Material Type		Standard type
Package	L	Package: 100pcs/inner box , 1000pcs/Carton
Internal Control Code	01	Code- 2 letter or digits
RoHS and REACH Status		RoHS III and REACH Compliant
UL certified		File NO. E341498 TV-8 125 VAC 17 A 250/277VAC (General Application) 10 A 250/277VAC (General Application) 20 A 125 (General Application) 1HP 250/240 VAC
TUV certified		File No. R50446369 17 A 250/277VAC 17 A 30 VDC
CQC certified		File No. CQC19002224659 20 A 125VAC 17 A 250VAC/277VAC 10 A 250 VAC/277 VAC 17A /10 A 30 VDC



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ELECTRICAL PARAMETERS

Parameter		Unit	Unit Value			Condition
			Min.	Тур.	Max.	
Coil specification	Nominal voltage	V		12		DC
	Coil resistance	Ω		400		±10% at 23±5°C
	Rated current	mA		30		DC ±10% at 23±5°C
	Operate voltage	V			9.0	DC at 23±5°C
	Release voltage	V	0.6			DC at 23±5°C
	Maximum voltage	V			15.6	130% of nominal voltage
	Coil temperature rise	К			50K	@ Coil:12V
Contact	Contact configuration			SPDT (1 Fo	rm A)	
specification	Contact rating		17A 250VAC (Resistive Load)			
	Contact resistance	mΩ			100	@DC6V 1A
	Operate time	ms			10	
	Release time				5	
	operating frequency	Cycle /hour			18000 600	Mechanically Electrically
	Contact temperature rise				50K	@ Contact:17A
General specification	Insulation resistance	mΩ	1000			@ DC 500V
	Dielectric strength between open contacts between contacts & coil	V		1000 2500		AC 50/60 HZ for 1Minute
	Ambient temperature	°C	-40		+105	
	Relative Humidity	RH	45%		85%	
	Electrical life	Cycle	100K			@ NO 17A 250VAC
	Mechanical life	Cycle	10KK			
	Switching Current	Α			20	
	Coil Nominal Power	W		0.45		
	Contact arrangement			1 Form	A	



SEALED SUBMINIATURE HIGH POWER RELAY Y3U SERIES

ENVIRONMENTAL CHARACTERISTICS

Test Items	Test Method And Conditions	Requirement
Vibration resistance		
Shock resistance	Shock resistance Error operation: At peak acceleration 100m/s2, duration 11ms, 3 shocks is given in each direction of X, Y, Z. No error operation more than 1 ms. Endurance: No construction trouble when shock it from 3 directions 3 times at peak acceleration 1000m/s2, duration 6ms.	
Cold resistance	No any trouble on construction or characteristic when leave relay in – 40°C±2°C for 240h. After that, leave it in standard condition for 2 hours.	It shall meet the specification
Heat resistance No any trouble on construction or characteristic when leave relay in +85°C±2°C for 240h. After that, leave it in standard condition for 2 hours.		It shall meet the specification
Moisture resistance	After keeping relay for 240h in 40°C, 90%, then leave it in standard condition for 2 hours. Insulation resistance 10M Ω Min. No any trouble on construction or characteristic	It shall meet the specification

TERMINAL CHARACTERISTICS

Test Items	Test Method And Conditions	Requirement
Terminal strength	5N pushed into any terminals for 10 s. There shall be no abnormalities.	The curving of the terminals shall be acceptable
Terminal solderability	case of the same in the sa	
Soldering thermal No any trouble on construction or characteristic. When dipped into solder bath 260±5°C, 10±1s.		It shall meet the specification



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STANDARD TEST CONDITION

Test Items	Test Method And Conditions	Requirement
Ambient temperature	23±5°C	It shall meet the specification
Relative humidity	25% ~ 75%	It shall meet the specification
Air pressure	86kPa ~ 106kPa	It shall meet the specification

STORAGE CONDITION

Test Items	Test Method And Conditions	Requirement
Ambient temperature	-40°C ~ +85°C	It shall meet the specification
Relative humidity	35% ~ 85%	It shall meet the specification
Environment	Store in locations where the product or container is not expose to corrosive gas such as hydrogen sulfide Store in locations where no visible dust exists. Store in locations not subject to direct sunlight.	It shall meet the specification

Reminds

- 1. Any special requirements, please contact us.
- 2. Under the Environment with dangerous gas such as H2S, SO2 or NO2, fully sealed type is recommended.
- 3. If the ambience allows, flux proof type is preferentially recommended.
- 4. If the user washes the PCB and relay in the ultrasonic cleaner, fully sealed type must be selected



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PACKAGE (Unit: mm)

Series No.	MPQ Inner Box	Carton Dimension	MOQ Carton	Net Weight	Gross Weight
	Pcs	cm	pcs	Kgs	Kgs
Y3U	100	L35.0*W25.5*H19.5	1000	15.0	16.0

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