Latching Relay

W27LA

Features

- 120A switching capability
- It meets the DC load capacity of DC60V and 35A
- Single coil and double coils are optional, status of the auxiliary switch is also optional
- Contact on and off can be controlled by manual control switch
- Provide the contact gap of the product is ≥ 3mm,it meets the Europe standard of VDE0126 photovoltaic standards
- Breakdown voltage (between contact and coil):4KV
- Environment-friendly product (RoHS compliant)
- Outline Dimensions:(58.0×40.0×20.8)mm
- Main application:New energy and PV industry(Photovoltaic new energy), Industry control



CHARACTERISTICS

Specifications	Item						
	Contact arrangement		1A, 1E	5			
Contact Data	Contact resistance(initial)		≤1mΩ	(6VDC 1A)			
	Contact ma	terial	AgSn	D ₂			
	Rated load(Resistance load)			277VAC			
	Rated load	Resistance load)	100A	415VAC			
Rated value	Max.switchi	ng voltage	440VA	١C			
	Max.switchi	ng current	120A				
	Max.switchi	ng capacity	41500	VA			
	Insulation resistance(initial)		1000N	1Ω(500VDC)			
	Dielectric	Between open contacts	2500\	/AC,1min			
Electrical	strength	Between coil&contacts					
performance	(initial)		4000VAC,1min				
	Closing time		≤25ms	6			
	Opening time		≤25ms	6			
Mechanical	Shock	Functional	98m/s	²(10g)			
performance	resistance	Destructive	980m/	/s²(100g)			
performance	Vibration resistance		10Hz~	-55Hz 1.5mm DA			
	Mechanical		1×10 ⁶	ops			
Endurance	Electrical(Room temperature)		100A	277VAC	1.5×10 ⁴ ops (ON/OFF=1s/9s)		
			100A	415VAC	1×10 ⁴ ops (ON/OFF=1s/9s)		
Operate condition	Ambient temperature		-40°℃~95°℃				
	Humidity		5% to 95%				
Termination		INT'L PCB+Quickly contact terminal					
Unit weight			Approx.95g(Without attachment)				
Construction			Flux proofed				

COIL DATA(23℃)

Single coil latching

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Nominal	Closing oltage	Opening voltage	Rated Current	Coil Resistance	Nominal	Max Voltage	
Voltage	VDC	VDC	(±10%)	(±10%)	Power		
DC 6V	≤4.50	≤4.50	0.375 A	16Ω		DC 9V	
DC 9V	≤6.75	≤6.75	0.250 A	36 Ω	2.25W	DC 13.5V	
DC 12V	≤9.00	≤9.00	0.188 A	64Ω	2.2300	DC 18V	
DC 24V	≤18.00	≤18.00	0.094 A	256Ω		DC 36V	

Double coils latching

Nominal	Closing oltage	Opening voltage	Rated Current	Coil Resistance	Nominal		
Voltage	VDC	VDC	(±10%)	(±10%)	Power	Max Voltage	
DC 6V	≤4.50	≤4.50	0.75/0.75A	8/8Ω		DC 9V	
DC 9V	≤6.75	≤6.75	0.5/0.5A	18/18Ω	4.5W	DC 13.5V	
DC 12V	≤9.00	≤9.00	0.375/0.375A	32/32Ω	4.500	DC 18V	
DC 24V	≤18.00	≤18.00	0.188/0.188A	128/128Ω		DC 36V	

ORDERING INFORMATION

	W27LA	-1A	1	т	-L1	R	-XXX	DC6V
1) Туре								
② Contact arrangement:1A=1 open contacts								
1B=1 close contacts								
③ PCB mounting:1=Type A、2=Type B								
④ Contact material:T=AgSnO ₂								
⑤ Coil type:L1=Single coil latching、L2=Double coils latching								
6 Polarity:Nil=standard polarity R=reversed polarity								
⑦ Customer special code:numbers or letters denote customer's requirements								

⑧ Coil specification:DC6/9/12/24V

WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)

Standard polarity wiring diagram



WIRING DIAGRAM AND PC BOARD LAYOUT(Unit:mm)



A Type Double Coils Latching

Remark: (1) In case of no tolerance shown in outline dimension:outline dimension≤1mm,tolerance should be±0.2mm;outline dimension>1mm and <5mm,tolerance should be ±0.3mm;outline dimension≥5mm,tolerance should be ±0.5mm. (2) The tolerance without indicating for PCB layout is always ±0.1mm.

The tolerance without indicating for 1 OD layout is always ±0. Inin

Please contact us for more detailed outline installation dimensions.

A Type Single Coil Latching

SAFETY APPROVAL RATINGS

	Approval	File No.	Contact	Contact	Approved ratings		
	Approval		arrangement	material			
	UL/C-UL	E475405	1A, 1B	AgSnO ₂	100A	415VAC	95 ℃
					100A	277VAC	95 ℃
	T LN/	R 50412805	1A, 1B	AgSnO ₂	100A	415VAC	95 ℃
	TUV				100A	277VAC	95 ℃

- ① With the consideration of shock risen from transit and relay mounting, relay's initial state might be changed ,please impose pulse voltage to reset the relay before using(rated coil voltage, impulse width≥5 times operation time.
- 2 In order to maintain the initial performance parameters of the relay, please be careful not to drop the product;
- ③ In order to maintain the "set" or "reset" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "set" or "reset" time. Do not energize the voltage to "set" coil and "reset" coil simultaneously.
- (4) The specification is for reference only.Specifications subject to change without notice.