#### Latures

- 7A switching capability
- The thickness of the product is 7mm, suitable for high density installation
- Can supply the product meet the standards of IEC60335-1、IEC60730-1
- We can provide the product with ambient temperature is 105°C
- highly efficient magnetic circuit for high sensitivity: 200mW
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Outline Dimensions (20.4×7.0×15.0) mm
- Main application: Home appliance. Smart home. electric power meter







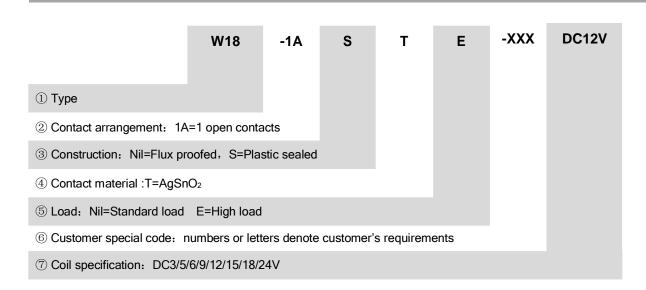
# CHARACTERISTICS

Specifications	Item					
Contact Data	Contact arrangement		1A			
	Contact resistance(initial)		≤100mΩ (6VDC 1A)			
	Contact material		AgSnO <sub>2</sub>			
Datadooloo	Rated load(Resistance load)		7A 250VAC			
	Max.switching voltage		277VAC/30VDC			
Rated value	Max.switching current		7A			
	Max.switching capacity		1750VA			
	Min.allowing load		5VDC 100mA			
	Insulation resistance(initial)		1000MΩ(500VDC)			
Electrical performance	Dielectric strength (initial)	Between open contacts	1000VAC,1min			
		Between coil&contacts	4000VAC,1min			
	Impact resistance voltage		between coil and contacts:10KV (1.2×50μs)			
	Operate time		≤10ms			
	Release time		≤5ms			
Mechanical	Shock	Functional	98m/s <sup>2</sup>			
	resistance	Destructive	980m/s <sup>2</sup>			
performance	Vibration resistance		10Hz∼55Hz 1.5mm DA			
	Mechanical		5×10 <sup>6</sup> ops			
Endurance	Electrical		5A 250VAC/30VDC	1×10 <sup>5</sup> ops (ON/OFF=1s/9s)		
			7A 250VAC	3×10 <sup>4</sup> ops (ON/OFF=1s/9s)		
Operate	Ambient temperature		-40℃~85℃			
condition	Humidity		5% to 90%			
Termination			PCB			
Unit weight			Approx.4g			
Construction			Plastic sealed Flux proofed			

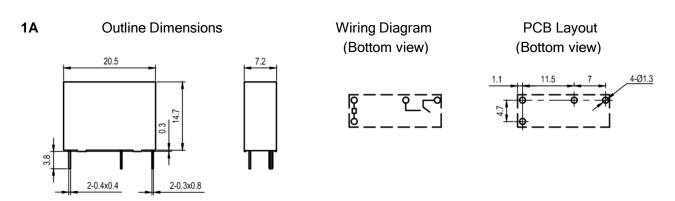
# ■ COIL DATA(23°C)

Nominal	Pick-up Voltage	Drop-out Voltage	Rated Current	Coil Resistance	Nominal Power	Max Voltage
Voltage	VDC	VDC	(±10%)	(±10%)	Nominal Power	
DC 3V	≤2.25	≥0.15	66.7mA	45Ω		130%Nominal Voltage
DC 5V	≤3.75	≥0.25	40mA	125Ω		
DC 6V	≤4.50	≥0.30	33.3mA	180Ω		
DC 9V	≤6.75	≥0.45	22.2mA	405Ω	200mW	
DC 12V	≤9.00	≥0.60	16.7mA	720Ω	ZOUITIVV	
DC 15V	≤11.25	≥0.75	13.3mA	1128Ω		
DC 18V	≤13.50	≥0.90	11.1mA	1620Ω		
DC 24V	≤18.00	≥1.20	8.3mA	2880Ω		

#### ORDERING INFORMATION



# OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT (Unit: mm)



Remark: (1)In case of no tolerance shown in outline dimension:outline dimension $\leq 1$ mm,tolerance should be  $\pm 0.2$ m;outline dimension  $\geq 1$ mm and  $\leq 5$ mm, tolerance should be  $\pm 0.3$ mm;outline dimension $\geq 5$ mm,tolerance should be  $\pm 0.5$ mm.

(2) The tolerance without indicating for PCB layout is always ±0.1mm.

# ■ SAFETY APPROVAL RATINGS

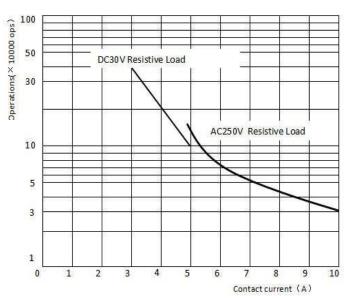
Approval	File No.	Contact	Contact	Approved ratings		
• •		arrangement	material	11 3		
UL/C-UL	E475405	1A(NO)	AgSnO <sub>2</sub>	5A	250/30VDC	<b>85℃/105℃</b>
				10A/7A	250/125VAC	<b>85</b> ℃
TUV	R 50406753	1A(NO)	AgSnO <sub>2</sub>	5A	250/30VDC	<b>85℃/105℃</b>
				10A/7A	250/125VAC	85℃
CQC	CQC17O02180326	1A(NO)	AgSnO <sub>2</sub>	5A	250/30VDC	<b>85℃/105℃</b>
				7A	250/125VAC	85℃

# **■ PERFORMANCE CURVES**

#### MAXIMUM SWITCHING POWER

# 

#### **ENDURANCE CURVE**



#### **■ NOTICE**

- ① If the relay needs to be cleaned or used in bad environment(e.g:dust or organic gas),we recommend plastic sealed type.
- ② The specification is for reference only, specifications subject to change without notice.