

# WQE relay

## 特点Characteristic

### 1、高达15A触点切换能力

Up to 15A contact switching capability

### 2、可靠性高, 寿命长

High reliability, long service endurance

### 3、外形尺寸LY1、LY2: (27.3×21.0×35.2) mm

LY3: (31.0×27.5×35.5) mm

LY4: (41.0×27.5×35.5) mm

Overall dimensions: LY1、LY2: (27.3×21.0×35.2) mm

LY3: (31.0×27.5×35.5) mm

LY4: (41.0×27.5×35.5) mm



## 触点参数Contact parameters

型号Model	WL13F/LY
触点形式Contact form	1A、2A、3A、4A(SPSTNO); 1C、2C、3C、4C(SPDT(B-M))
最大切换电流Maximum switching current	15A
最大切换电压Maximum switching voltage	250VAC/30VDC
最大切换功率Maximum switching power	2500VA/300W
触点负载 (阻性) Contact load (resistive)	10A 250VAC/30VDC

## 性能参数Performance parameter

触点材料Contact material	银合金 Ag Alloy	
接触电阻Contact resistance	Max 100MΩ	
动作时间Action time	≤25ms	
释放时间Release time	≤25ms	
绝缘电阻Insulation resistance	Min 500MΩ (500VDC)	
介质耐压 Dielectric Strength	断开触点间 Between contacts	AC 1000VAC 50/60Hz 1min
	触点线圈间 Between contact coils	AC 1500VAC 50/60Hz 1min
冲击 To attack	稳定性Stability	98m/s <sup>2</sup>
	强度Strength	980m/s <sup>2</sup>
振动Vibration	10~55Hz 双振幅1.5mm Double Amplitude	
机械寿命Mechanical endurance min	1×10 <sup>7</sup>	
电气寿命Electrial eddurance min	1×10 <sup>5</sup>	
相对湿度Humidity	5%~85%RH	
环境温度Ambient temperature	-40℃~85℃	
重量Weight	约Approx.LY1, LY2:31g; LY3: 45g; LY4:62g	

**订货示例 Ordering example**

	WL13F/LY	-S	-2	DC	12	M	F	D	X
继电器型号 Type									
密封型式: F-防尘式, S-塑封式 Construction: F-Flux proofed, S-Plastic Sealed									
继电器触点组数: 1-1组触点、2-2组触点、3-3组触点、4-4组触点 Number of Poles: 1-1 group, 2-2 group, 3-3 group, 4-4 group									
线圈功耗: DC-直流线圈, AC-交流线圈 Coil Power: DC-DC coil, AC-AC coil									
线圈电压: DC 6VDC~220VDC, AC 6VAC~220VAC Coil Voltage: DC 6VDC~220VDC, AC 6VAC~220VAC									
触点形式: M-常开, N-转换, B-常闭 Contact Arrangement: M-N/O, N/C, B-N/C									
端子形式: P-PCB式, T-插座式, F-法兰式 Terminal form: P-PCB, T-Socket, F-Flange mounting									
附带配件: 无-不带配件, D-带二极管, L-带LED灯, DL-带二极管和LED灯 Accessory form: Nil-Without accessory, D-With diode, L-With LED light, DL-With diode and LED light									
特规参数: 根据客户要求定制 Special parameters: customized according to customer requirements									

**线圈参数 Coil parameters**

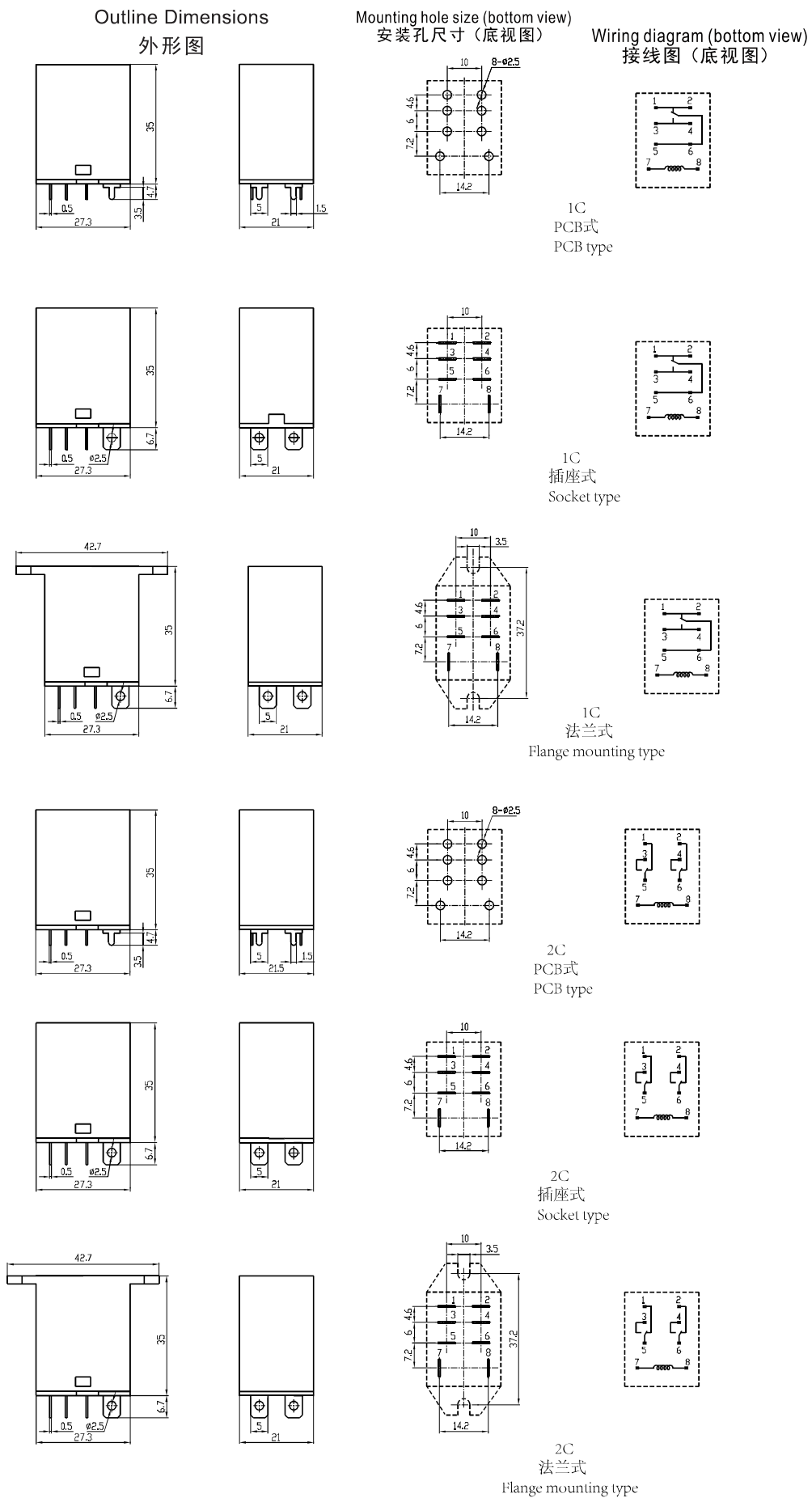
(at 20°C)

型号规格	额定	最大	线圈电阻	动作电压	释放电压	功率
Coil Voltage	Rated	Max	Coil Resistance	Pick-up Voltage 额定电压的80% 80% of rated voltage	Drop-out Voltage 额定电压的30% 30% of rated voltage	Coil Power
WL13F/LY1 WL13F/LY2	VDC		$\Omega \pm 10\%$	VDC	VDC	W/VA
	6	6.6	40	4.8	1.8	0.9W
	12	13.2	160	9.6	3.6	
	24	26.4	640	19.2	7.2	
	48	52.8	2560	38.4	14.4	
	110	121	17921	88	33	
	220	242	53777	176	66	1.2VA
	AC6V	6.6	10.5	4.8	1.8	
	AC12V	13.2	42	9.6	3.6	
	AC24V	26.4	168	19.2	7.2	
	AC48V	52.8	672	38.4	14.4	
	AC110V	121	3529	88	33	
	AC220V	242	14116	176	66	

**线圈参数Coil parameters (at 20°C)**

型号规格 Coil Voltage	额定 Rated	最大 Max	线圈电阻 Coil Resistance	动作电压 Pick-up Voltage 额定电压的80% 80% of rated voltage	释放电压 Drop-out Voltage 额定电压的30% 30% of rated voltage	功率 Coil Power	
	VDC		$\Omega \pm 10\%$	VDC	VDC	W/VA	
WL13F/LY3	6	6.6	24	4.8	1.8	1.5W	
	12	13.2	96	9.6	3.6		
	24	26.4	384	19.2	7.2		
	48	52.8	1536	38.4	14.4		
	110	121	8067	88	33		
	220	242	32267	176	66		
	AC6V	6.6	5	4.8	1.8	2.5VA	
	AC12V	13.2	20.2	9.6	3.6		
	AC24V	26.4	80.6	19.2	7.2		
	AC48V	52.8	322.3	38.4	14.4		
	AC110V	121	1694	88	33		
	AC220V	242	6776	176	66		
	WL13F/LY4	VDC		$\Omega \pm 10\%$	VDC	VDC	W/VA
		6	6.6	24	4.8	1.8	1.5W
12		13.2	96	9.6	3.6		
24		26.4	384	19.2	7.2		
48		52.8	1536	38.4	14.4		
110		121	8067	88	33		
220		242	32267	176	66		
AC6V		6.6	4.2	4.8	1.8	3VA	
AC12V		13.2	16.8	9.6	3.6		
AC24V		26.4	67.2	19.2	7.2		
AC48V		52.8	268.8	38.4	14.4		
AC110V		121	1412	88	33		
AC220V		242	5647	176	66		

外形及安装图 Outline and installation drawing (Unit: mm)



1C  
PCB式  
PCB type

1C  
插座式  
Socket type

1C  
法兰式  
Flange mounting type

2C  
PCB式  
PCB type

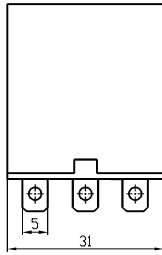
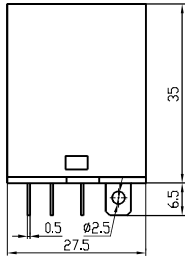
2C  
插座式  
Socket type

2C  
法兰式  
Flange mounting type

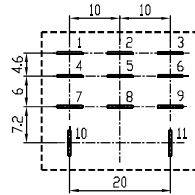
外形及安装图 Outline and installation drawing (Unit: mm)

Outline Dimensions

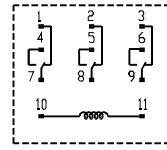
外形图



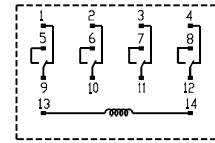
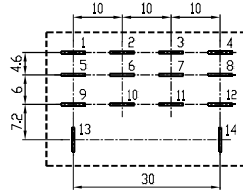
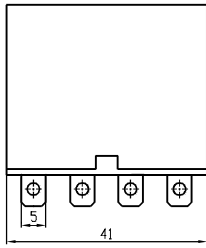
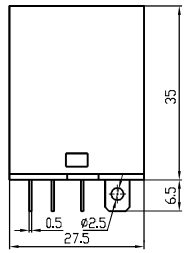
Mounting hole size (bottom view)  
安装孔尺寸 (底视图)



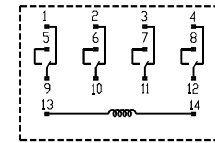
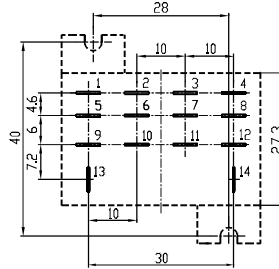
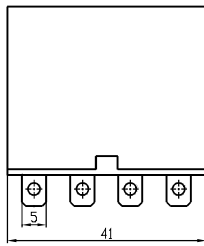
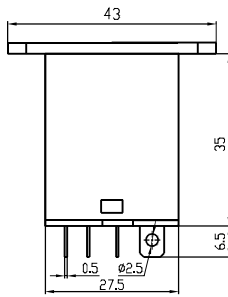
Wiring diagram (bottom view)  
接线图 (底视图)



3C  
插座式  
Socket type



4C  
插座式  
Socket type

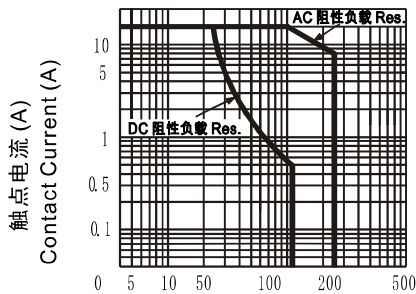


4C  
法兰式  
Flange mounting type

性能曲线图 Performance chart

最大切换功率 (1C)

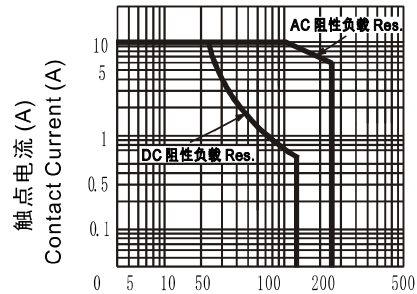
Max. Switching Power (1C)



触点电压 (V)  
Contact Voltage (V)

最大切换功率 (2C, 3C, 4C)

Max. Switching Power (2C, 3C, 4C)



触点电压 (V)  
Contact Voltage (V)