

<h1 style="margin: 0;">通信继电器</h1>	<h1 style="margin: 0;">HJR4102E</h1>
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- Small size and low cost
- DIP standard terminals
- Surge Strength 1500V FCC68
- Sealed type available
- Conform to RoHS,ELV directive



### ORDERING CODE 订购代码

<u>HJR4102E</u>	D	—	<u>12VDC</u>	—	<u>S</u>	—	<u>Z</u>	<u>***</u>
1	2	3	4	5	6			
1. Relay Model 继电器型号	3. Coil Nominal Voltage 线圈额定电压		5. 触点转换形式					
2. Coil Power 线圈功率 N=0.45W, D=0.36W, L=0.2W	3,5,6,9,12,24,48VDC		Z: Form C; H: Form A					
4. Sealed 密封		6. 识别代码						

### COIL DATA 线圈参数 (at 20°C)

Nominal Voltage 额定电压(VDC)	3	5	6	9	12	24	48	
Coil Resistance 线圈阻值( $\Omega \pm 10\%$ )	20	56	80	180	320	1280	5120	0.45W
Rated Current 额定电流(mA)	150	90	75	50	37.5	18.7	9	
Max Operate Voltage 最大吸合电压(VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min Release Voltage 最小释放电压(VDC)	0.3	0.5	0.6	0.9	1.2	2.4	4.8	
Coil Resistance 线圈阻值( $\Omega \pm 10\%$ )	25	69	100	225	400	1600	6400	0.36W
Rated Current 额定电流(mA)	120	71.4	60	40	30	15	7.5	
Max Operate Voltage 最大吸合电压(VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min Release Voltage 最小释放电压(VDC)	0.3	0.5	0.6	0.9	1.2	2.4	4.8	
Coil Resistance 线圈阻值( $\Omega \pm 10\%$ )	45	125	180	105	720	2880	/	0.2W
Rated Current 额定电流(mA)	66.7	40	33.3	22.2	16.7	8.3	/	
Max Operate Voltage 最大吸合电压(VDC)	2.25	3.75	4.5	6.75	9	18	/	
Min Release Voltage 最小释放电压(VDC)	0.3	0.5	0.6	0.9	1.2	2.4	/	
Max Applicable Voltage 最大过载电压	70°C时额定电压的130%，23°C时额定电压的170%							

### CONTACT DATA 触点参数

Contact Form 触点形式	1H/1Z
Contact Material 触点材料	Silver Alloy
Load 负载	Resistive load(COS $\Phi$ =1)
Contact Ratings 触点负载	3A 120VAC/24VDC      1A 250VAC(TUV)
Minimum load 最小负载	1mA 5VDC
Max Switching Voltage 最大转换电压	240VAC/60VDC
Max Switching Current 最大转换电流	5A
Max Switching Power 最大转换功率	360VA/90W
Contact Resistance 接触电阻	100m $\Omega$ Max                      at 6VDC 1A
Life Expectancy 寿命	Electrical 电气寿命: 100,000 Operations(at 30 Operations/minute)
	Mechanical 机械寿命: 10,000,000 Operations(at 3000 Operations/minute)

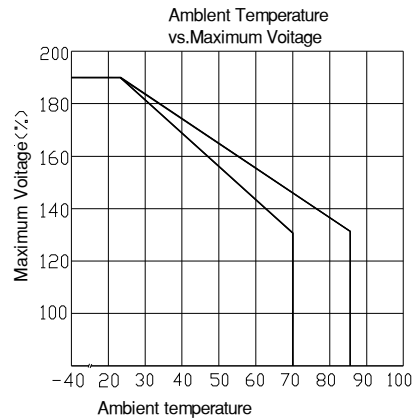
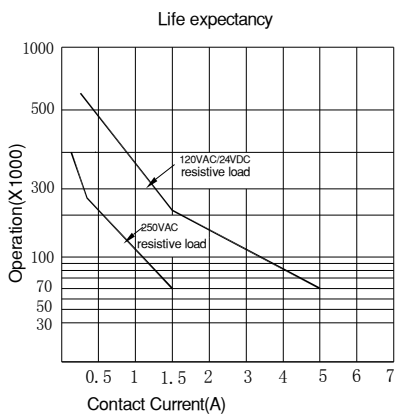
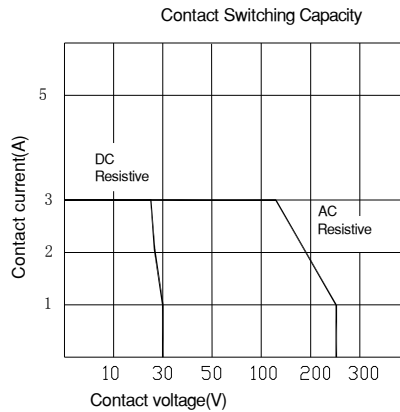
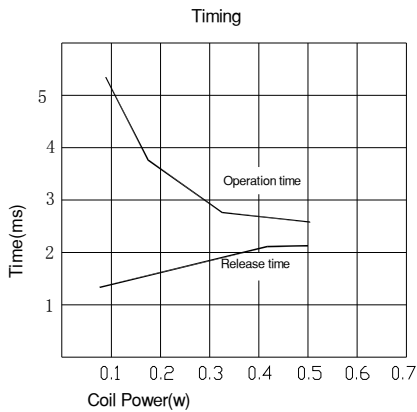
## ■ CHARACTERISTICS DATA 性能参数

Insulation Resistance 绝缘阻值	100MΩ Min at 500VDC
Dielectric Strength Between Open Contacts 触点间耐压	500VAC(for one minute)
Between Contacts and coil 触点与线圈间耐压	1000VAC(for one minute) or 1500VAC(for one minute)
Operate Time 吸合时间	5ms
Release Time 释放时间	5ms
Temperature Range 环境温度	-30°C to +85°C
Shock Resistance 冲击	Operating Extremes 动作极限: 10G
	Damage Limits 破坏极限: 50G
Vibration Resistance 振动	10-55Hz, 1.5mm
Max. switching frequency 最大转换频率	Mechanical: 18,000operations/hr
	Electrical: 1,800operations/hr
Humidity 湿度	40-85%
Weight 重量	Approx 3.5g
Safety Standard 安全标准	UL cUL TÜV CQC

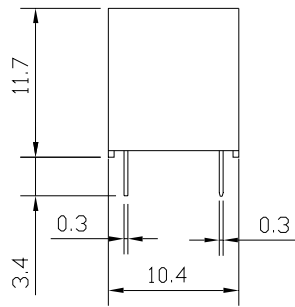
## ■ APPROVED STANDARDS 安全标准

Model(型号)	Coiling rating (线圈电压)	Safety Standard (安全标准)	Contact rating (触点负载)
HJR4102E	3 to 48VDC	TÜV	3A 120VAC 3A 24VDC 1A 250VAC
		UL/cUL	3A 120VAC 3A 24VDC
		CQC	1A 250VAC 3A 120VAC

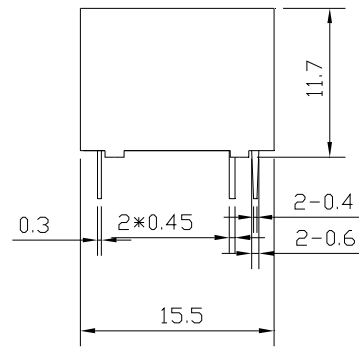
## ■ ENGINEERING DATA 设计参数



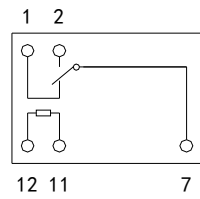
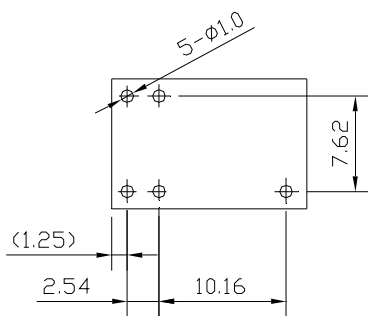
■ OVERALL AND MOUNTING DIMENSIONS 安装图



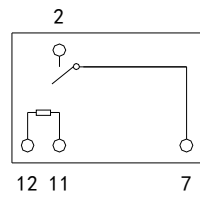
安装图



接线图



FormC



FormA

- 备注：1) 产品部分外形尺寸中未注尺寸公差：当外形尺寸 $\leq 1\text{mm}$ 时，公差为 $\pm 0.2\text{mm}$ ；当外形尺寸在 $1\sim 5\text{mm}$ 时，公差为 $\pm 0.3\text{mm}$ ；  
当外形尺寸 $> 5\text{mm}$ 时，公差为 $\pm 0.4\text{mm}$ 。  
2) 安装孔尺寸中未注尺寸公差均为 $\pm 0.1\text{mm}$ 。

声明：

本产品规格书仅供客户使用时参考，如有更改，恕不另行通知。

## Таблица возможной замены реле

### силовые реле

HONGFA	TIANBO	SONGLE	HELISUN	OMRON
HF3FF	HJR-3FF	SRD(T73)	HLS8-T73	G5L
HF10FF-2			<b>HLS-MK2P</b>	MK2
HF10FF-3Z			HLS-MK3P	MK3
HF13F			<b>HLS-13F</b>	
HF18FF	HJQ-22		HLS-4453(18F)-4	MY4
HF21FF	HJR-21FF	SRU(22F)	HLS8-22F	G5L-E
HF32F	TRG1	SRSB	HLS-32F	835/835NL
HF32FA/32FA-T	TRG1	SRSB	HLS-32F	835/835NL
HF32FA-G	TRG1	SRSB	HLS-32F	835/835NL
HF33F	TRG2	SRSC	HLS-33F	G5SB
HF62F	TRA2F	SMIH(14FHA)	HLS-14FK	G5J
HF46F/HF46F-G	TRGB			202/202H
HF49FD				G5J
HF102F	TRAF		HLS-102F	G4A
HF115F	TRC2	SMIH(14FH)	HLS-14F2	G2RL
HF115FP	TRC3	SMIH(14FH)	HLS-14F3	
HF140FF	TRA3		HLS-14F	G2R/G2RG
HF13F	HJQ-13F-2C	SMB(13F)	HLS-13F-2	LY2
HF2100	HJQ-15F-1	SLC(T91)	HLS-T91(16F)-1	G7G
HF105F - 4	HJQ-15F-3	SLCH(T92)		
HF105F-1	HJQ-15F	SLA(T90)	HLS-T90(15F)	G8P
HF2160	HJQ-15F-2	SLI(T93)	HLS-T91(16F)-2	G7G/G8G
HF165FD	HJQ-15F	SLA	HLS-T90(15F)	G8P
JQC-21FF	HJR-21FF	SRD(T73)	HLS8-22F	
HF7FF	HJR-7FF	SRG(4123)	HLS8-T73	
HF141FF	TRA1		HLS-14F1	G2R
HF14FW	TRA2	SMIH(14FH)	<b>HLS-14F2</b>	G2R
HF14FF	TRA1		HLS-14F	G2R
HF36F	TRA4			
HF42F	TRA5			G5PA-2
HF8	TRDH	SRI(T72)	HLS-T72	
HF102F			HLS-102F	G4A
HLS-4453(18F)-2		SMBH(4453)	HLS-4453(18F)-2	MY2
HF18FF-3Z			HLS-4453(18F)-3	MY3

### сигнальные реле

HONGFA	TIANBO	SONGLE	HELISUN	OMRON
HFD2	HJR1	SRC	HLS-4078	G5V-2
HFD4				
HFD27	HJR1-2	SRC	HLS-4078	G5V-2
HFD41	HJR4102	SRS		
HF41F			HLS6-4100H-1	G2E
HM4101F	HJR4102E			
HFD23			HLS6-23F	G5V-1

### автомобильные реле

HONGFA	TIANBO	SONGLE	HELISUN	OMRON
HFKM, HFKS	TRAW	SLE(4117)	HLS-4117	
HVF6	TRFM			G8HN
HFKP	TRKP	SLB	HLS-4120	G8PE
	TRS			
	TRV3			
HFV4	TRV4	SLD	HLS-CMA3	G8JN
	TRV5			
HFV7	TRV6	SLDH	HLS-CMA3-1	G8JR
HFKW	HJR78F	SRA(T74)	HLS-T78	G8QN
			HLS-4121/4122	
HFV6		SLM	HLS-CMA6	G8H