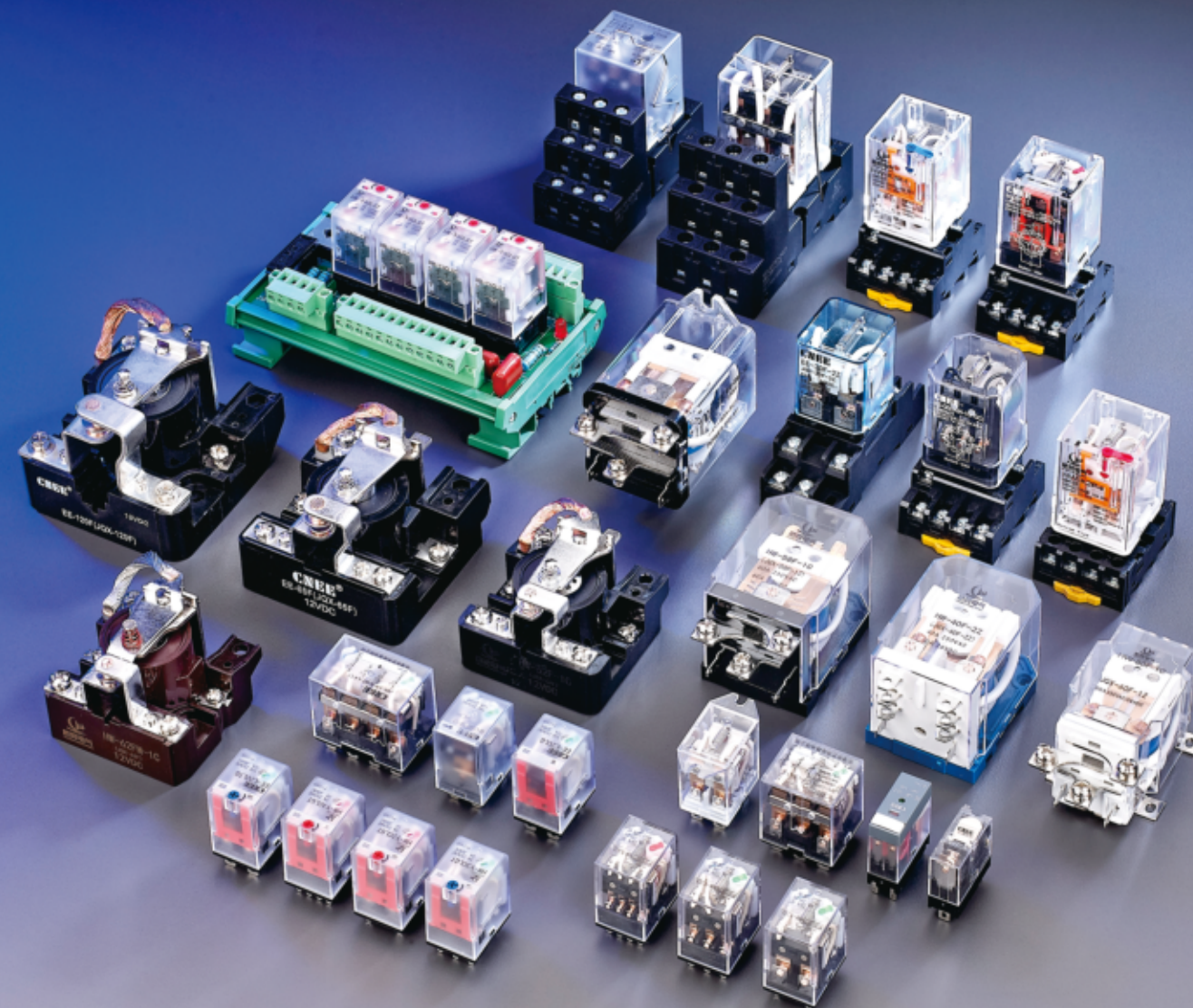


本手册仅用于说明本系列产品的相关信息。可能因技术升级或采用更新的生产工艺而改进本手册有关内容，
或对本手册的印刷错误及不准确的信息进行必要的改进和更改，恕不另行通知。



Catalogue




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在没有明确说明的情况下,所有继电器壳体上标识的负载电流均为阻性负载。在额定切换电压下,电感负载的允许电流不应超过额定阻性负载的30%,电动机负载的允许电流不应超过额定阻性负载的20%,灯性负载的允许电流不应超过额定阻性负载的10%,容性负载的允许电流不应超过额定阻性负载的5%。为了产品实际使用的可靠性,在选型时建议选择触点负载电流值不超过产品额定负载下稳态电流值的60% - 70%。Unless a clear explanation, the load currents indicated on all relay housings are resistive loads. Under the rated switching voltage, the allowable current of inductive load should not exceed 30% of the rated resistive load, the allowable current of motor load should not exceed 20% of the rated resistive load, the allowable current of lamp load should not exceed 10% of the rated resistive load, and the allowable current of capacitive load should not exceed 5% of the rated resistive load. In order to ensure the reliability of the actual use of the product, it is recommended to select a contact load current value that does not exceed 60% - 70% of the steady-state current value under the rated load of the product during model selection.

负载的性质 Electrical load characters	冲击电流 Impulse current
阻性负载 Resistive load	稳态电流的 1 倍 1 times the steady-state current
钠光灯负载 Sodium light lamp load	稳态电流的 1-3 倍 1-3 times the steady-state current
水银灯负载 Mercury lamp load	稳态电流的 3 倍 3 times the steady-state current
感性负载 inductive load	稳态电流的 3-5 倍 3-5 times the steady-state current
电动机负载 Motor load	稳态电流的 3-5 倍 3-5 times the steady-state current
变压器负载 Transformer load	稳态电流的 3-5 倍 3-5 times the steady-state current
白炽灯负载 Incandescent lamp load	稳态电流的 3-5 倍 3-5 times the steady-state current
容性负载 Capacitive load	稳态电流的 3-5 倍 3-5 times the steady-state current

- ①通电状态下请勿触摸继电器端子部分及相连接的电气附件,进行继电器(包括端子台,插座等连接部件)的安装,维护,故障处理时请切断电源。
Do not touch the relay terminal and its connected electrical accessories when powered on. Install and maintain the relay (including terminal blocks, sockets, and other connecting components).
- ②请勿将继电器超出额定负载使用。超负荷使用可能会引起绝缘性能下降,触点粘连,接触不良等故障,甚至会导致继电器自身破损烧坏。如需技术支持请联系服务中心。Do not use the relay beyond its rated load. Overload use may cause insulation degradation, contact adhesion, poor contact, and other failures, and even lead to damage and burning of the relay itself.
- ③产品在仓储和使用过程中请避免跌落,不要拆解内部元件。以免引起破损,烧坏及触电。如需技术支持请联系服务中心。
Please avoid dropping the product during storage and use, and do not disassemble internal components, to avoid damage, burning, and electric shock.
- ④请勿在易燃,易爆性气体等环境中使用。以及避免在有水,蒸汽,结冰后有融化现象或水滴落下的场所使用。如需技术支持请联系服务中心。
Do not use in flammable, explosive gas, and other environments. And avoid using in places where there is water, steam, melting or water droplets falling after freezing.
- ⑤产品资料里的各项额定性能值,如果没有特别说明,都是在JIS C5442的标准试验状态(温度+15°C ~ +35°C,相对湿度25 ~ 75%,气压86 ~ 106 KPa)下的值。在实际设备上使用时,除了负载条件以外,使用环境也必须按照与实际使用状态相同的条件进行确认。如需技术支持请联系服务中心。Unless otherwise specified, all rated performance values in the product data are values under the standard test conditions of JIS C5442 (temperature+15 ° C to +35 ° C, relative humidity 25 to 75%, air pressure 86 to 106 KPa). When using on an actual device, in addition to the load conditions, the usage environment must also be confirmed under the same conditions as the actual usage status.
- ⑥继电器线圈是有极性的(线路图上标注有正负极),进行端子连接时请对照接线图然后再正确接线,严禁接反如果连接错误,会引起误动作,异常发热,着火等情况发生。如需技术支持请联系服务中心。The relay coil has polarity (positive and negative electrodes are marked on the wiring diagram). When connecting terminals, please refer to the wiring diagram and then correctly connect them. It is strictly prohibited to connect them in reverse. If the connection is incorrect, it may cause misoperation, abnormal heating, ignition, and other situations.
- ⑦避免向线圈连续施加电压超过最大切换电压。
Avoid continuously applying voltage to the coil that exceeds the maximum switching voltage.

触点形式说明:
Contact form description:

名称 Name	国内代号 Domestic code	国际代号 International code	结构形式 structural style
转换型 Conversion type	Z Z	C C	
常开型 Normally-ON type	H H	A A	
常闭型 Normally-OFF	D D	B B	

转换型:
中间是动触点,线圈不通电时,动触点和其中一个静触点断开和另一个闭合,线圈通电后,动触点就移动,使原来断开的成闭合状态,原来闭合的成断开状态,达到转换的目的。
Conversion type:
The middle is the moving contact. When the coil is not powered on, the moving contact and one of the static contacts are disconnected and the other is closed. After the coil is powered on, the moving contact moves, making the originally opened contact in a closed state and the originally closed contact in an open state, achieving the purpose of conversion.

常开型:
线圈不通电时触点是断开的,通电后触点闭合。
Normally-ON type:
When the coil is not energized, the contacts are open, and when energized, the contacts are closed.

常闭型:
线圈不通电时触点是闭合的,通电后触点断开。
Normally-OFF type:
The contacts are closed when the coil is not energized, and open when energized.

大功率继电器新能源系列 New Energy Power Relay



大功率继电器新能源系列New Energy Power Relay



HW-53F2Z HW-53F2Z-P HW-53F3Z HW-53F3Z-P

产品特点Product characteristics

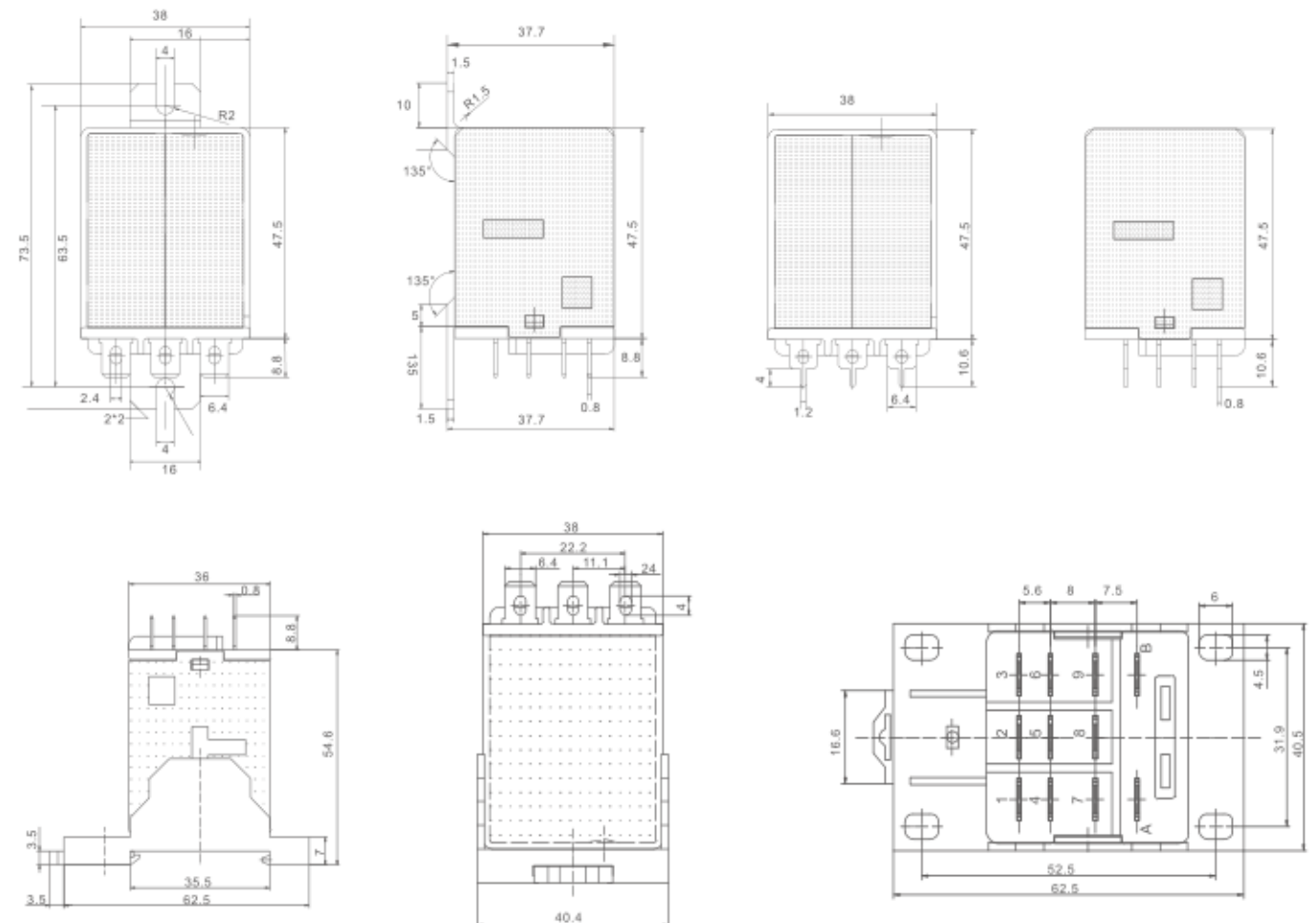
- + 可选配法兰式安装
it can choose the flange mounted type
- + 产品配有点动、带自锁式测试按钮
the products with the inching test button which Self-locking
- + 配套插座HW53S-□E
It can match the socket for HW53S-E

型号及其含义Type and meaning

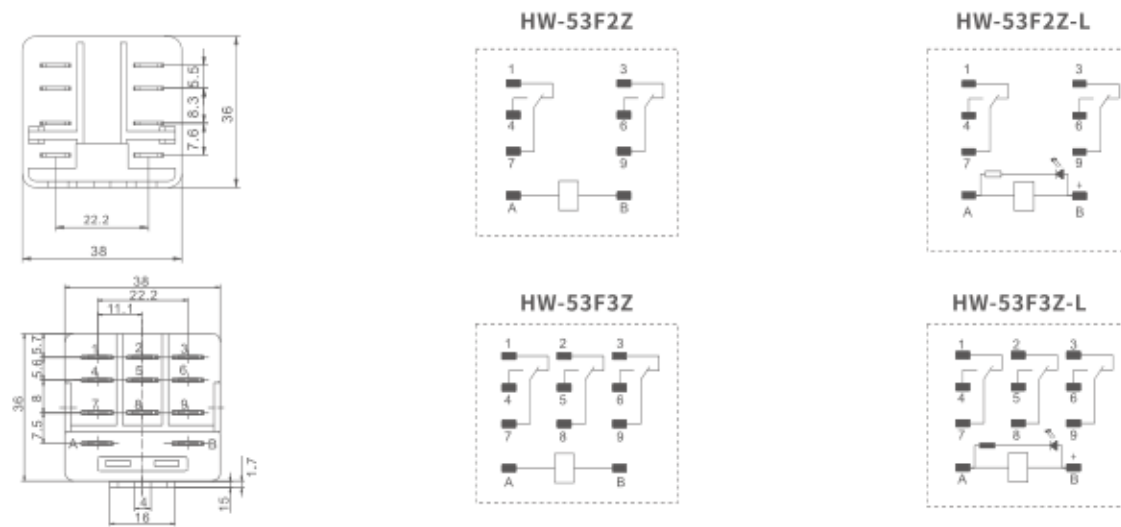
HW	53F	3	□	-	P	L	T	□	VDC
①	②	③	④	⑤	⑥	⑦	⑧		

- 1 企业代号
Enterprise Code
- 2 设计序号
Serial Number
- 3 触点组数: 2、3
Number of contact groups: two,three
- 4 触点形式: Z转换 H常开 D常闭 H-normally open contact
Contact Form: z-conversion type D-normally closed contact
- 5 安装方式: F:法兰式 P:PCB式 无字母: 插拔式
mounted type: F:flange mounted type P:PCB mounted type No
Letters: plug-in moulded
- 6 工作状态: L:LED指示 无字母: 无指示
operating state:L:LED indicate No Letters:no indicate
- 7 辅助功能: T自锁 G机械指示 D/CR抑制保护
auxiliary function : T-Self-locking G-mechanical indicate
D/CR-Inhibitory protection
- 8 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating
voltage

外形尺寸图External dimensions (mm)



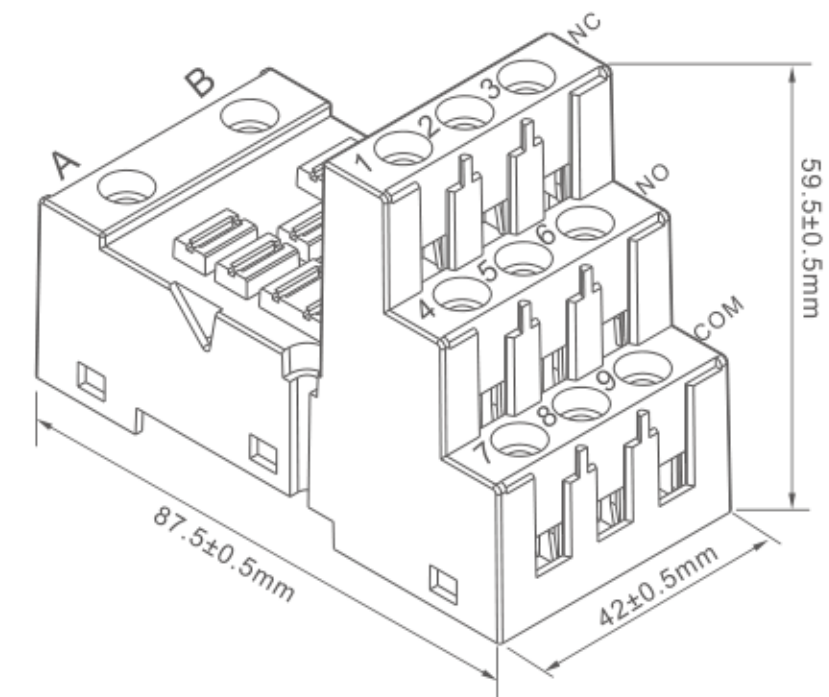
接线图Wiring diagram



产品性能Product performance

产品型号Model	HW-53F	
外形尺寸Dimension(mm)	38x36x56.5	
触点形式 Contact Form	3Z、3H、3D、2Z、2H、2D	
触点材料 Contact Material	银合金 SilverAlloy	
触点容量阻性 Resistance Performance Of ContactorCapacity	25A/28VDC、25A/240VAC	
线圈功率Coil Power	AC (VA)	2.5
	DC(W)	1.8
线圈电压Coil Voltage	AC(V)	6~380
	DC(V)	6~220
吸合电压 Pick-up Voltage	DC: ≤75%、AC: ≤80%	
释放电压 Dropout Voltage	DC: ≥10%、AC: ≥30%	
最大电压 Max Voltage	110%	
接触电阻 Contact Resistance (mΩ)	≤100mΩ	
介质耐压 Dielectric Strength	开路触点间 Between OpenContacts	1500VAC
	触点组间 Contacs Pieces	1500VAC
	线圈与触点间 BetweenCoil&Contacts	2500VAC
绝缘电阻 Insulation Resistance (MΩ) at 500VDC	≥100MΩ	
工作寿命 Service Life	电气 Electrical(次)	5×10 ⁴ 次
	机械Mechanical(次)	5×10 ⁵ 次
环境温度Ambient Temperature (°C)	-25℃~+55℃	
引出端形式 Terminal Type	插拔式Insert Type	
防护形 Protection Type	封闭式 Close Type	
产品重量 Product Weight (g)	2Z:77 3Z:81	

产品组合Product mix





HW-30F

产品特点Product characteristics

- 结构牢固抗冲击抗振动性强使用寿命长
Strong structure, strong impact resistance, strong vibration resistance and long service life
- 负载切换电流: 30A
30A Load switching current:30A
- 插座式安装、法兰式安装
Socket mounted \ flange mounted
- 2组触点转换
2 sets of contact conversions

型号及其含义Type and meaning

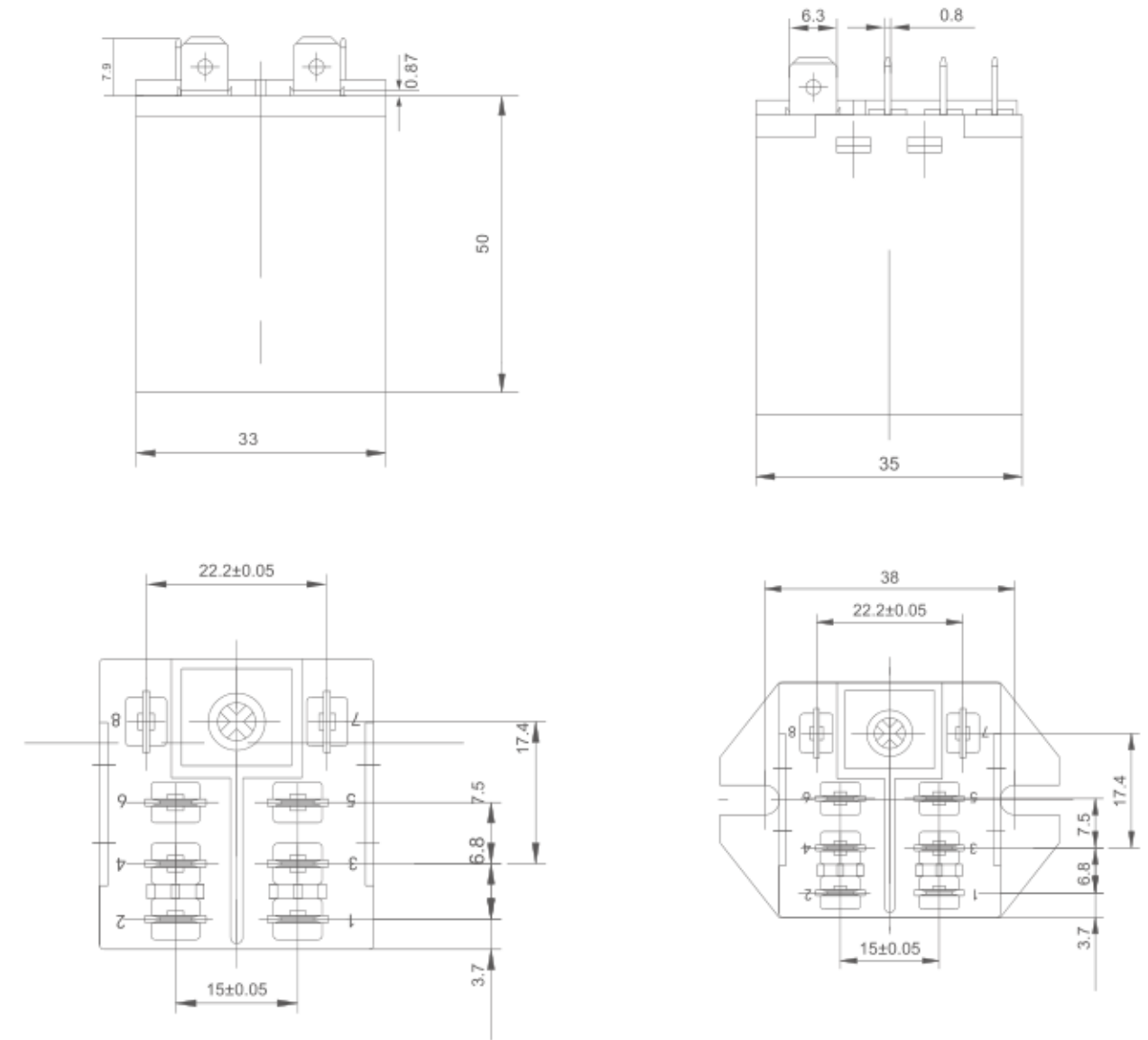
HW	30F	2		-	P	D	VDC
1	2	3	4	5	6	7	

- 1 企业代号
Enterprise Code
- 2 设计序号
Serial Number
- 3 触点组数: 2
Number of contact groups: two
- 4 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact
- 5 安装方式: F:法兰式 无字母: 插拔式
mounted type: F:flange mounted type No Letters: plug-in mounted
- 6 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection
- 7 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage

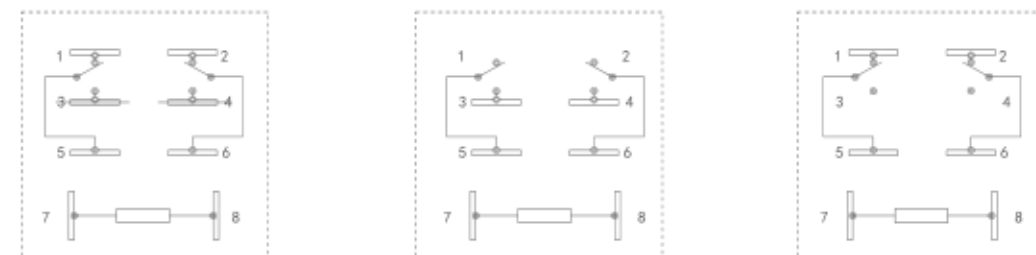
产品性能Product performance

接触电阻 Contact resistance	≤100mΩ
电气寿命 Electrical life	≥5×10 ⁴ 次
机械寿命 Mechanical life	≥1×10 ⁶ 次
线圈电压 Coil voltage	DC:6-220V AC:6-380V.
吸合时间 Suction time	≤25ms
释放时间 Release time	≤15ms
同极触点之间 Between the same pole contacts	1500VAC/1min(漏电流Leakage current 1mA)
异极触点之间 Between polar contacts	1500VAC/1min(漏电流Leakage current 1mA)
触点与线圈间 Between contact and coil	2000VAC/1min(漏电流Leakage current 1mA)
绝缘电阻 Insulation resistance	≥100MΩ(500VDC)
环境温度 Ambient temperature	-25°C ~ +55°C
环境湿度 Ambient humidity	35% ~ 80%RH
大气压力 Atmospheric pressure	86 ~ 106KPa
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.5mm
尺寸 dimension	43×35.5×48mm
重量 weight	约around 70g

外形尺寸图External dimensions (mm)



接线图Wiring diagram





HW-38F

产品特点Product characteristics

- 结构牢固抗冲击抗振动性强使用寿命长
Strong structure, strong impact resistance, strong vibration resistance and long service life
- 负载切换电流: 40A,50A
40A,50A Load switching current:40A,50A
- 可提供2组和3组触点安装
it can provide 2 sets and 3 sets of contact conversions
- 插座式安装,有密封型和小静块可选择
Socket mounted ,Sealed type and small static block are optional

型号及其含义Type and meaning

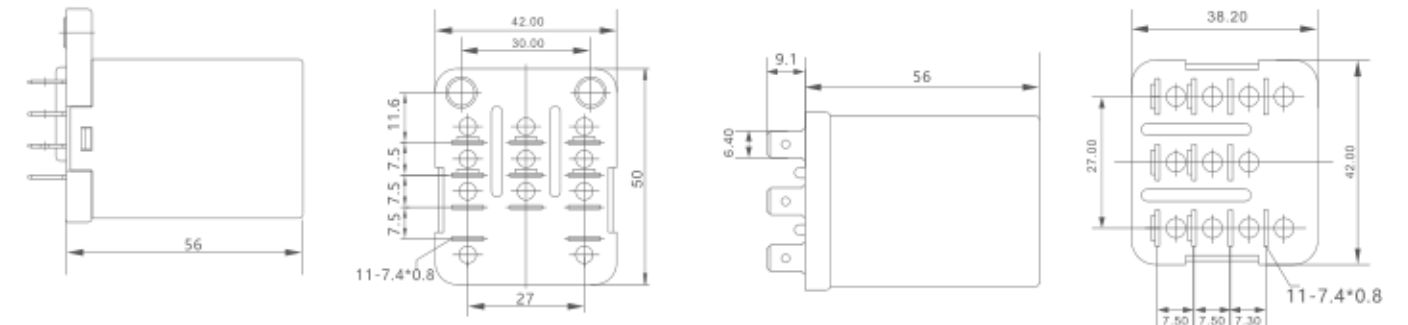
HW	38F	2		-	P	D	VDC
1	2	3	4	5	6	7	

- 1 企业代号
Enterprise Code
- 2 设计序号
Serial Number
- 3 触点组数: 2、3
Number of contact groups: two、three
- 4 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact
- 5 安装方式: P:PCB式 无字母: 插拔式
mounted type: P:PCB mounted type No Letters: plug-in mouted
- 6 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection
- 7 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage

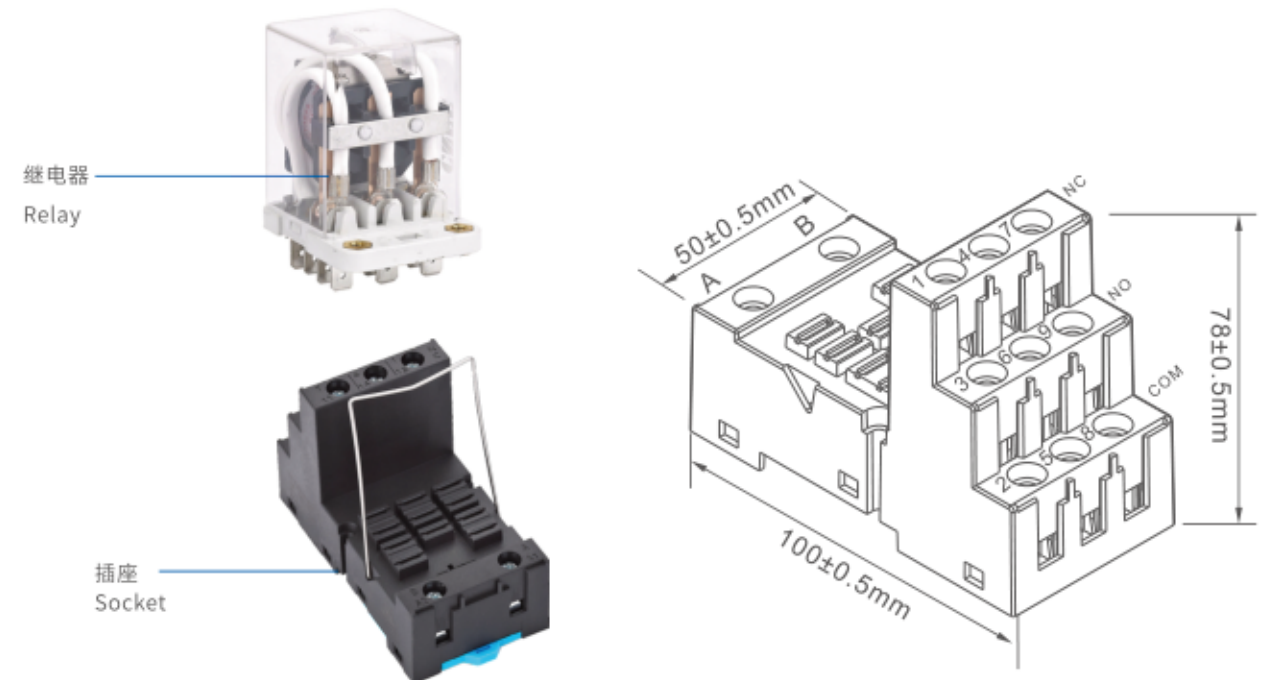
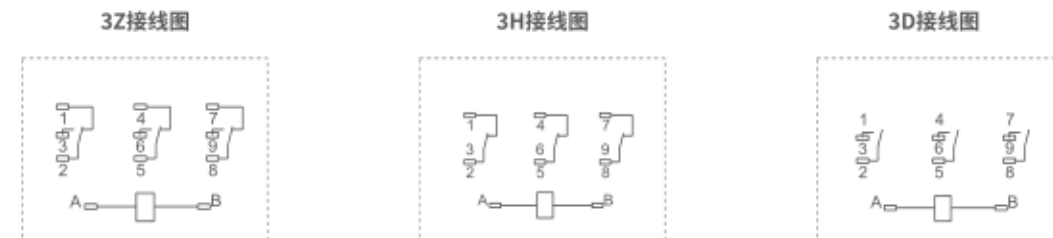
产品性能Product performance

接触电阻 Contact resistance	≤100mΩ
电气寿命 Electrical life	≥5×10 ⁴ 次
机械寿命 Mechanical life	≥1×10 ⁶ 次
线圈电压 Coil voltage	DC:6-220V AC:6-380V.
吸合时间 Suction time	≤25ms ;
释放时间 Release time	≤15ms
同极触点之间 Between the same pole contacts	1000VAC/1min(漏电流Leakage current 1mA)
异极触点之间 Between polar contacts	1500VAC/1min(漏电流Leakage current 1mA)
触点与线圈间 Between contact and coil	2500VAC/1min(漏电流Leakage current 1mA)
绝缘电阻 Insulation resistance	≥100MΩ(500VDC)
环境温度 Ambient temperature	-25°C ~ +55°C
环境湿度 Ambient humidity	35% ~ 80%RH .
大气压力 Atmospheric pressure	86 ~ 106KPa .
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.5mm
尺寸 dimension	55.5 X50 X 42mm
重量 weight	约around 130g

外形尺寸图External dimensions (mm)



接线图Wiring diagram





HW-40F2Z

产品特点Product characteristics

- ✦ 结构牢固抗冲击抗振动性强使用寿命长
Strong structure, strong impact resistance, strong vibration resistance and long service life
- ✦ 可提供2组(40A)触点转换
2 sets(40A) of contact conversions
- ✦ 导轨式安装
Guide rail type installation

型号及其含义Type and meaning

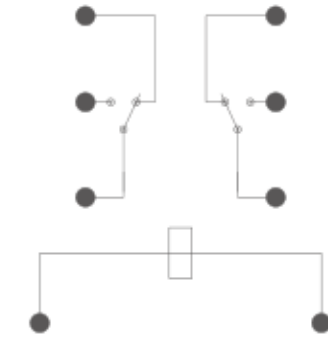
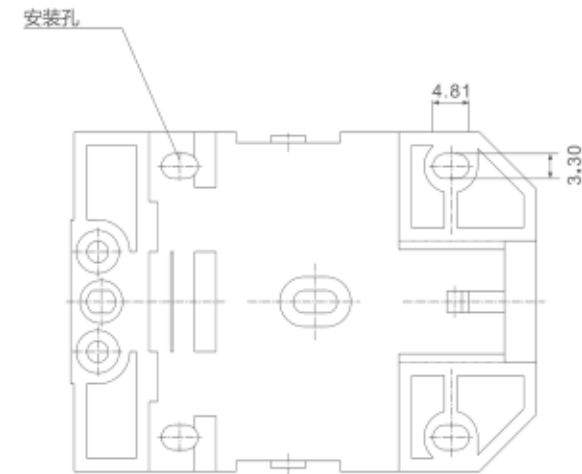
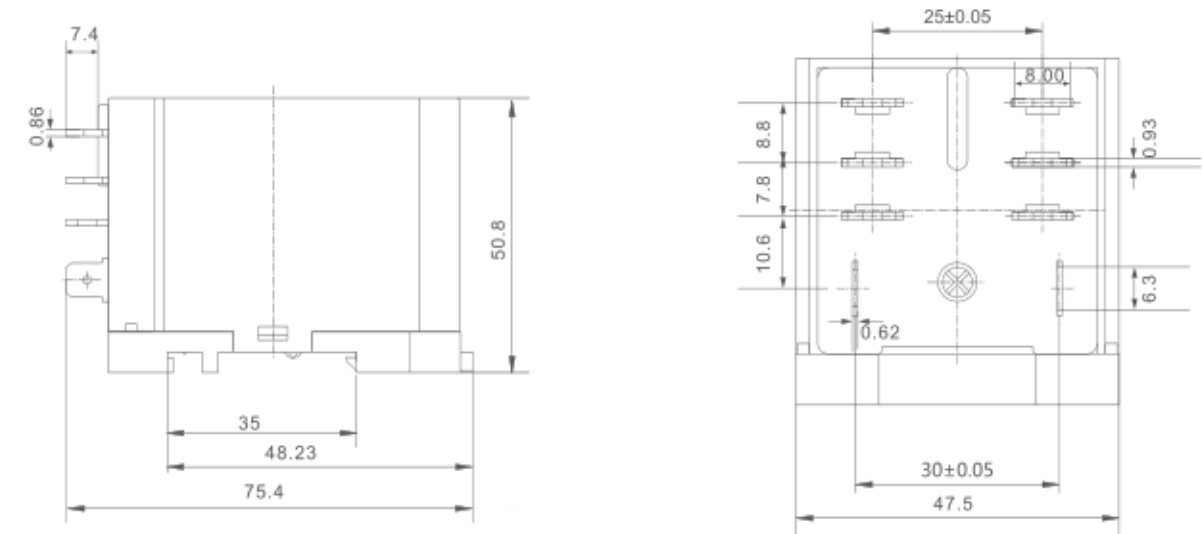
HW	40F	2Z	□	-	P	D	□	VDC
1	2	3	4	5	6	7		

- 1 企业代号
Enterprise Code
- 2 设计序号
Serial Number
- 3 触点组数: 2
Number of contact groups: two
- 4 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact
- 5 安装方式: 导轨式安装
mounted type: Guide rail type installation
- 6 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection
- 7 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage

产品性能Product performance

接触电阻 Contact resistance	≤100mΩ
电气寿命 Electrical life	≥5×10 ⁴ 次
机械寿命 Mechanical life	≥1×10 ⁶ 次
线圈电压 Coil voltage	DC:6-220V AC:6-380V.
吸合时间 Suction time	≤25ms ;
释放时间 Release time	≤15ms
同极触点之间 Between the same pole contacts	1500VAC/1min(漏电流Leakage current 1mA)
异极触点之间 Between polar contacts	1500VAC/1min(漏电流Leakage current 1mA)
触点与线圈间 Between contact and coil	2500VAC/1min(漏电流Leakage current 1mA)
绝缘电阻 Insulation resistance	≥200MΩ(500VDC)
环境温度 Ambient temperature	-25°C ~ +55°C
环境湿度 Ambient humidity	35% ~ 80%RH
大气压力 Atmospheric pressure	86 ~ 106KPa
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.5mm
尺寸 dimension	68×47×50.8mm
重量 weight	约around 160g

外形尺寸图External dimensions (mm)





HW-59F

产品特点Product characteristics

- + 结构牢固抗冲击抗振动性强使用寿命长
Strong structure, strong impact resistance, strong vibration resistance and long service life
- + 可提供1组(80A)触点转换
it can provide 1 set(80A) of contact conversion
- + 负载切换电流: 80A
80A Load switching current:80A
- + 螺栓式安装、法兰式安装
retaining bolt installation\ flange mounted

型号及其含义Type and meaning

HW	59F	1Z	□	- F	D	□	VDC
1	2	3	4	5	6	7	

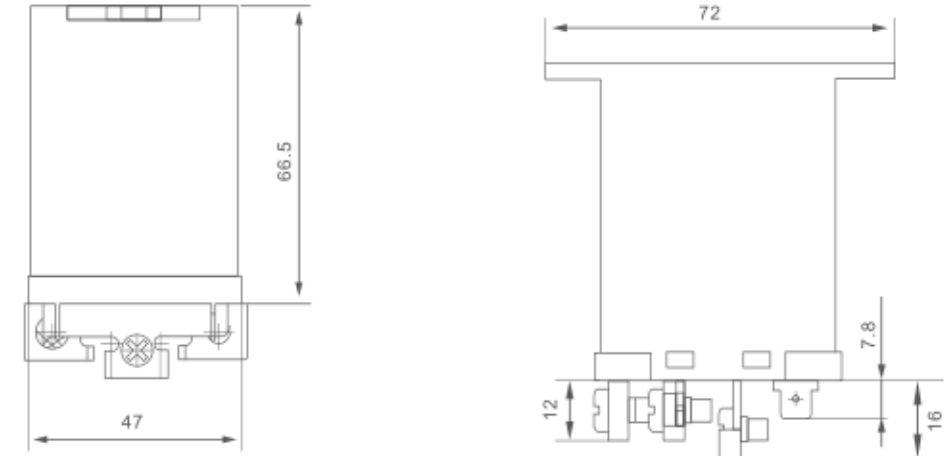
- | | |
|---|---|
| <p>1 企业代号
Enterprise Code</p> <p>2 设计序号
Serial Number</p> <p>3 触点组数: 1
Number of contact groups: one</p> <p>4 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact</p> | <p>5 安装方式: 螺栓式安装、法兰式安装
mounted type: retaining bolt installation、flange mounted type</p> <p>6 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection</p> <p>7 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage</p> |
|---|---|

产品性能Product performance

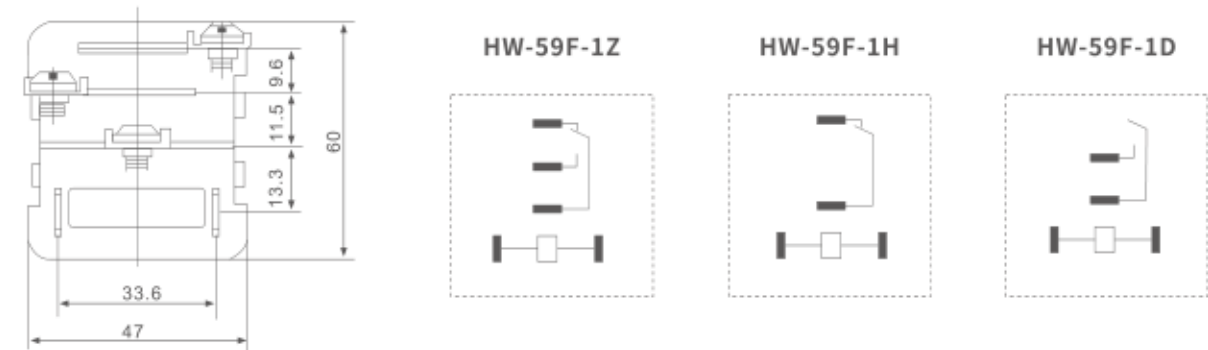
接触电阻 Contact resistance	≤100mΩ
电气寿命 Electrical life	≥5×10 ⁴ 次
机械寿命 Mechanical life	≥1×10 ⁶ 次
线圈电压 Coil voltage	DC:6-220V AC:6-380V.
吸合时间 Suction time	≤25ms ;
释放时间 Release time	≤15ms
同极触点之间 Between the same pole contacts	1000VAC/1min(漏电流Leakage current 1mA)
异极触点之间 Between polar contacts	/
触点与线圈间 Between contact and coil	2500VAC/1min(漏电流Leakage current 1mA)
绝缘电阻 Insulation resistance	≥200MΩ(500VDC)
环境温度 Ambient temperature	-25°C ~ +55°C
环境湿度 Ambient humidity	35% ~ 80%RH
大气压力 Atmospheric pressure	86 ~ 106KPa
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.5mm
尺寸 dimension	66.5×47×72mm
重量 weight	约around 240g

外形尺寸图External dimensions (mm)

HW-59F-1Z



接线图Wiring diagram





HW-60F

产品特点Product characteristics

- + 结构牢固抗冲击抗振动性强使用寿命长
Strong structure, strong impact resistance, strong vibration resistance and long service life
- + 可提供1组(60A)触点转换
it can provide 1 set(60A) of contact conversion
- + 负载切换电流: 40A、60A
Load switching current:40A、60A
- + 螺栓式安装
retaining bolt installation

型号及其含义Type and meaning

HW	60F	1Z	□	-	□	D	□	VDC
1	2	3	4	5	6	7		

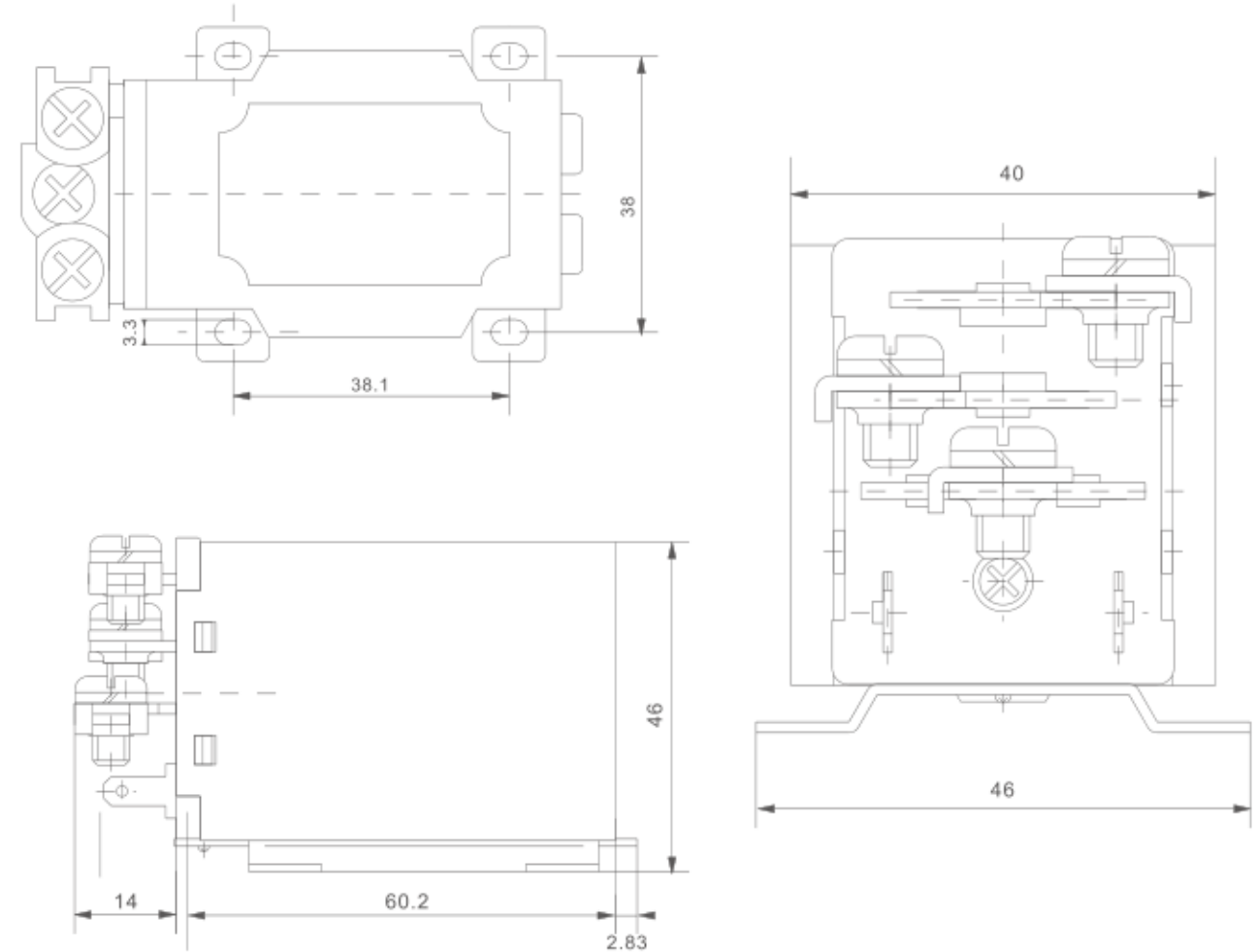
- 1 企业代号
Enterprise Code
- 2 设计序号
Serial Number
- 3 触点组数: 1
Number of contact groups: one
- 4 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact
- 5 安装方式: 螺栓式安装
mounted type: retaining bolt installation
- 6 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection
- 7 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage

产品性能Product performance

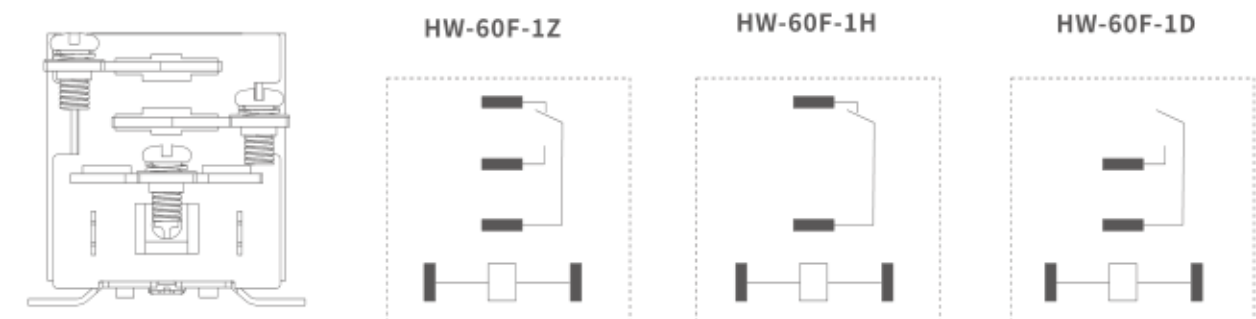
接触电阻 Contact resistance	≤100mΩ
电气寿命 Electrical life	≥5×10 ⁴ 次
机械寿命 Mechanical life	≥1×10 ⁶ 次
线圈电压 Coil voltage	DC:6-220V AC:6-380V.
吸合时间 Suction time	≤25ms ;
释放时间 Release time	≤15ms
同极触点之间 Between the same pole contacts	1000VAC/1min(漏电流Leakage current 1mA)
异极触点之间 Between polar contacts	/
触点与线圈间 Between contact and coil	2500VAC/1min(漏电流Leakage current 1mA)
绝缘电阻 Insulation resistance	≥200MΩ(500VDC)
环境温度 Ambient temperature	-25°C ~ +55°C
环境湿度 Ambient humidity	35% ~ 80%RH
大气压力 Atmospheric pressure	86 ~ 106KPa
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.5mm
尺寸 dimension	63.2 X 46X 46mm
重量 weight	约around 160g

外形尺寸图External dimensions (mm)

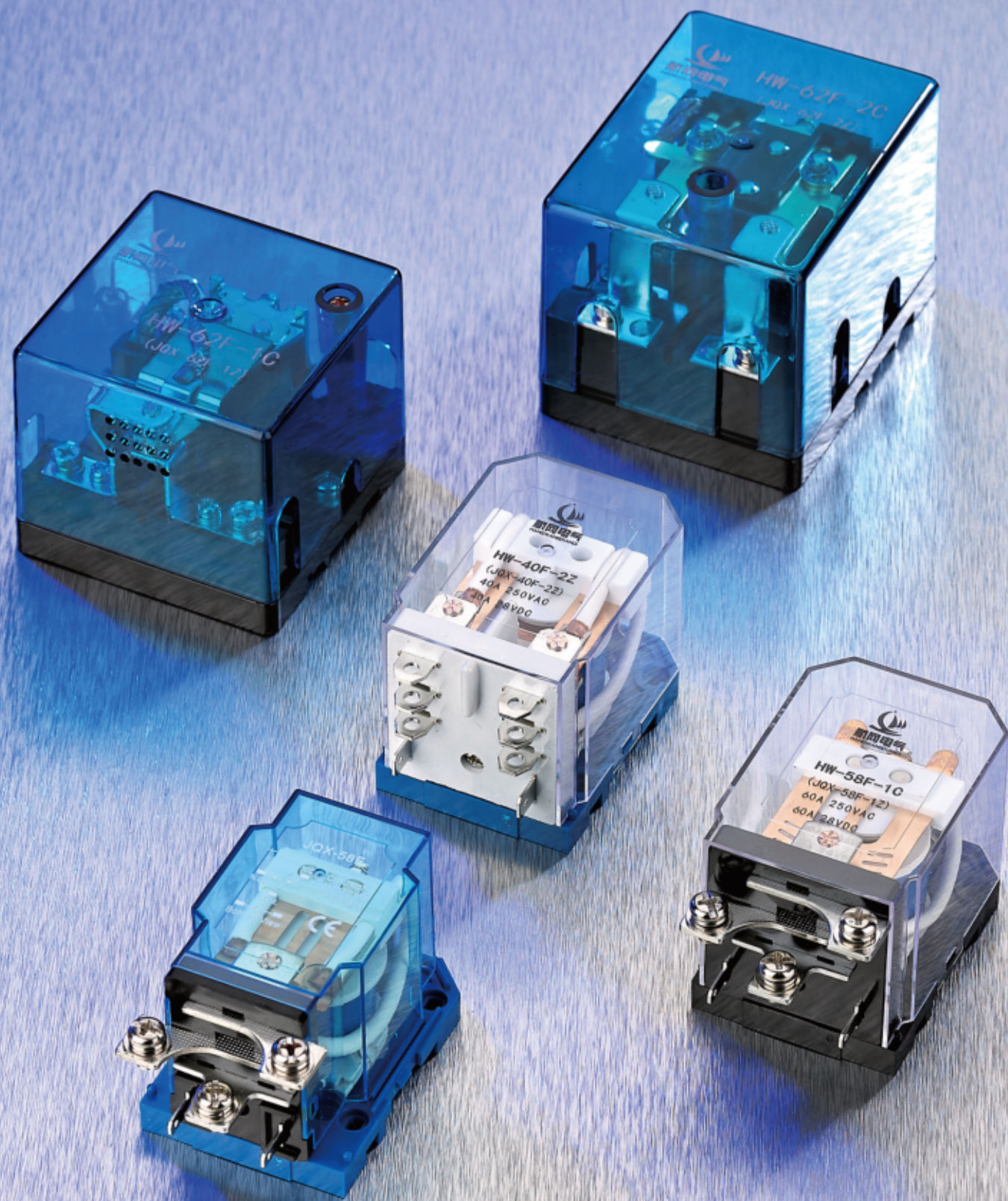
HW-60F-1Z



接线图Wiring diagram



大功率继电器导轨安装系列 DIN-Rail Power Relay



大功率继电器导轨安装系列DIN-Rail Power Relay



HW-58F

产品特点Product characteristics

- ✦ 结构牢固抗冲击抗振动性强使用寿命长
Strong structure, strong impact resistance, strong vibration resistance and long service life
- ✦ 负载切换电流: 60A
60A Load switching current:60A
- ✦ 螺栓式安装
retaining bolt installation
- ✦ 可提供1组触点转换
it can provide 1 set of contact conversion

型号及其含义Type and meaning

HW 58F 1Z □ - □ D □ VDC
① ② ③ ④ ⑤ ⑥ ⑦

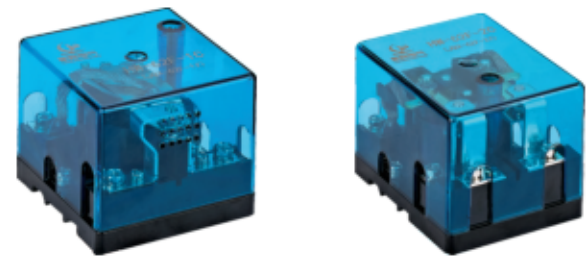
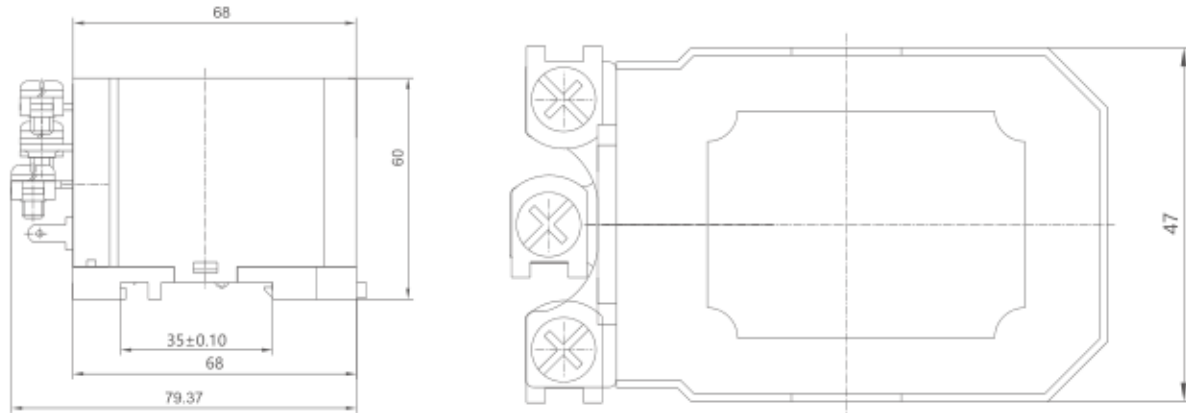
- | | |
|--|--|
| <ul style="list-style-type: none"> ① 企业代号
Enterprise Code ② 设计序号
Serial Number ③ 触点组数: 1
Number of contact groups: one ④ 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact | <ul style="list-style-type: none"> ⑤ 安装方式: 螺栓式安装
Mounted type: retaining bolt installation ⑥ 辅助功能: D/CR抑制保护
Auxiliary function :D/CRInhibitory protection ⑦ 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage |
|--|--|

产品性能Product performance

接触电阻 Contact resistance	≤100mΩ
电气寿命 Electrical life	≥5×10 ⁴ 次
机械寿命 Mechanical life	≥1×10 ⁶ 次
线圈电压 Coil voltage	DC:6-220V AC:6-380V.
吸合时间 Suction time	≤25ms ;
释放时间 Release time	≤15ms
同极触点之间 Between the same pole contacts	1000VAC/1min(漏电流Leakage current 1mA)
异极触点之间 Between polar contacts	/
触点与线圈间 Between contact and coil	2500VAC/1min(漏电流Leakage current 1mA)
绝缘电阻 Insulation resistance	≥200MΩ(500VDC)
环境温度 Ambient temperature	-25°C ~ +55°C
环境湿度 Ambient humidity	35% ~ 80%RH .
大气压力 Atmospheric pressure	86 ~ 106KPa .
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.5mm
尺寸 dimension	68 X 47 X 60mm
重量 weight	约around 170g

大功率继电器导轨安装系列DIN-Rail Power Relay

外形尺寸图External dimensions (mm)



HW-62F1Z

HW-62F2Z

产品特点Product characteristics

- ✦ 结构牢固抗冲击抗振动性强使用寿命长
Strong structure, strong impact resistance, strong vibration resistance and long service life
- ✦ 负载切换电流: 1Z 100A 2Z 80A
Load switching current: 1Z 100A 2Z 80A
- ✦ 导轨式安装、螺栓式安装
Din rail mounted、retaining bolt installation
- ✦ 可提供1组、2组触点转换
it can provide 1、2 set of contact conversion

产品性能Product performance

触点 contact	触点形式 Contact Form	1Z	2Z
	触点负载(阻性)Contact load (resistive)	100A、250VAC/30VDC	80A、250VAC/30VDC
	电气/机械寿命 Electrical life/ Mechanical life	≥5×10 ⁴ 次 ≥1×10 ⁶ 次	
	接触电阻 Contact Resistance	≤100mΩ (1A6VDC)	
	触点材料 Contact Material	AgSnO ₂	
性能 function	绝缘电阻 Insulation Resistance (MΩ)	≥200MΩ(500VDC)	
	介质耐压 Dielectric Strength	同极触点之间≥1000VAC/1min	Between the same pole contacts
		异极触点之间≥1500VAC/1min	Between polar contacts
	线圈与触点间≥2500VAC/1min	Between contact and coil	
吸合/释放时间 Operate time/Release time	≤25ms/25ms		
引出端方式 Terminal Type	螺丝式Screw type		
线圈 coil	额定线圈功率DC/AC Rated coil power DC/AC	80A:DC2.0W/AC4VA	
尺寸 dimension		67X67X60.5	85X68X65
重量 weight		240g	315g

大功率继电器导轨安装系列DIN-Rail Power Relay

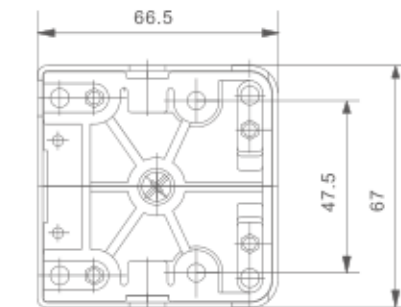
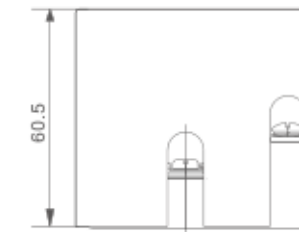
型号及其含义Type and meaning

HW 62F 1Z □ - □ D □ VDC
1 2 3 4 5 6 7

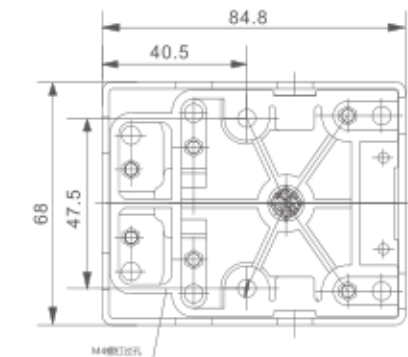
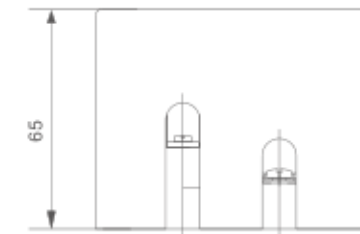
- 1 企业代号
Enterprise Code
- 2 设计序号
Serial Number
- 3 触点组数: 1、2
Number of contact groups: one, two
- 4 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact
- 5 安装方式: 螺栓式安装、导轨式安装
mounted type: retaining bolt installation\Din rail mounted
- 6 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection
- 7 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage

外形尺寸图External dimensions (mm)

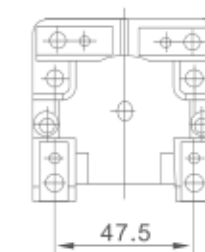
HW-62F1Z



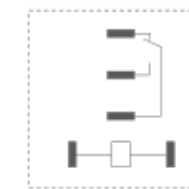
HW-62F2Z



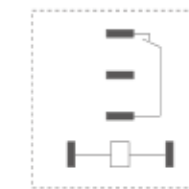
接线图Wiring diagram



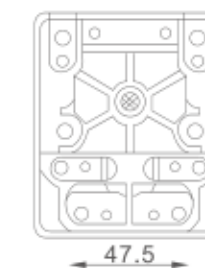
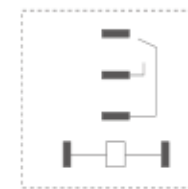
HW-62F1Z



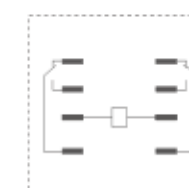
HW-62F1H



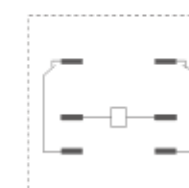
HW-62F1D



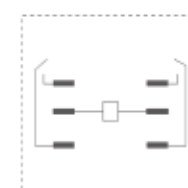
HW-62F2Z



HW-62F2H



HW-62F2D



特大功率单转换系列 Large Power Conversion



特大功率单转换系列 Large Power Conversion



HW-65F

产品特点 Product characteristics

- ✦ 结构牢固抗冲击抗振动性强使用寿命长
Strong structure, strong impact resistance, strong vibration resistance and long service life
- ✦ 负载切换电流: 100A
Load switching current: 100A
- ✦ 螺栓式安装
retaining bolt installation
- ✦ 可提供1组触点转换
it can provide 1 set of contact conversion

型号及其含义 Type and meaning

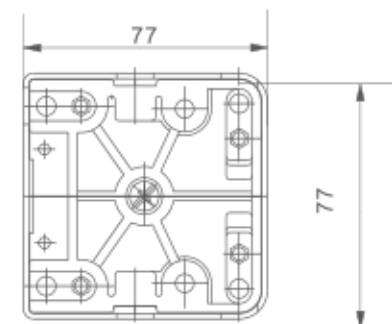
HW	65F	1Z	□	-	□	D	□	VDC
①	②	③	④	⑤	⑥	⑦		

- | | |
|---|--|
| <p>① 企业代号
Enterprise Code</p> <p>② 设计序号
Serial Number</p> <p>③ 触点组数: 1
Number of contact groups: two</p> <p>④ 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact</p> | <p>⑤ 安装方式: 螺栓式安装
mounted type: retaining bolt installation</p> <p>⑥ 辅助功能: D/CR抑制保护
auxiliary function: D/CRInhibitory protection</p> <p>⑦ 线圈电压: DC为直流 AC为交流
Coil Voltage: DC is for direct voltage AC is for alternating voltage</p> |
|---|--|

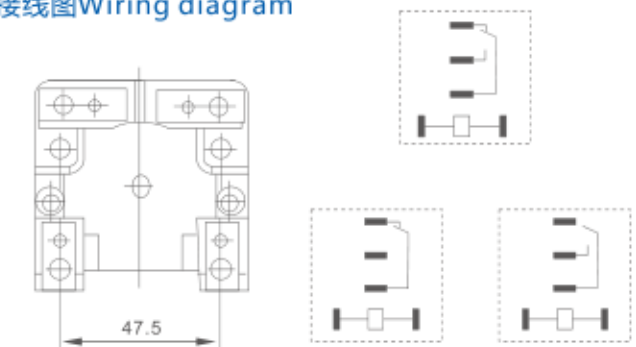
产品性能 Product performance

触点 contact	触点形式 Contact Form	1Z
	触点负载(阻性) Contact load (resistive)	100A、250VAC/30VDC
	电气/机械寿命 Electrical life/ Mechanical life	$\geq 3 \times 10^4$ 次 $\geq 1 \times 10^6$ 次
	接触电阻 Contact Resistance	$\leq 100\text{m}\Omega$
性能 function	触点材料 Contact Material	AgSnO2
	绝缘电阻 Insulation Resistance (M Ω)	$\geq 200\text{M}\Omega(500\text{VDC})$
	介质耐压 Dielectric Strength	同极触点之间 $\geq 1000\text{VAC}/1\text{min}$ Between the same pole contacts /
	吸合/释放时间 Operate time/Release time	$\leq 25\text{ms}/25\text{ms}$
	引出端方式 Terminal Type	螺丝式 Screw type
线圈 coil	额定线圈功率DC/AC Rated coil power DC/AC	100A:DC2.0W/AC4VA

外形尺寸图 External dimensions (mm)



接线图 Wiring diagram



特大功率单转换系列Large Power Conversion



HW-120F

产品特点Product characteristics

- ✦ 结构牢固抗冲击抗振动性强使用寿命长
Strong structure, strong impact resistance, strong vibration resistance and long service life
- ✦ 负载切换电流: 120A
Load switching current:120A
- ✦ 螺栓式安装
retaining bolt installation
- ✦ 可提供1组触点转换
it can provide 1 set of contact conversion

型号及其含义Type and meaning

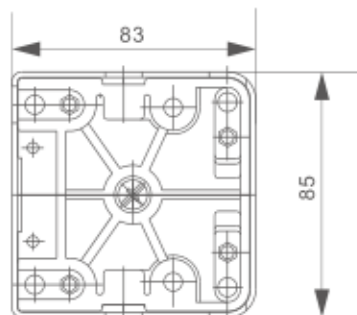
HW	120F	1Z	<input type="checkbox"/>	<input type="checkbox"/>	D	<input type="checkbox"/>	VDC
1	2	3	4	5	6	7	

- | | |
|--|--|
| 1 企业代号
Enterprise Code | 5 安装方式: 螺栓式安装
mounted type: retaining bolt installation |
| 2 设计序号
Serial Number | 6 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection |
| 3 触点组数: 1
Number of contact groups: two | 7 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage |
| 4 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact | |

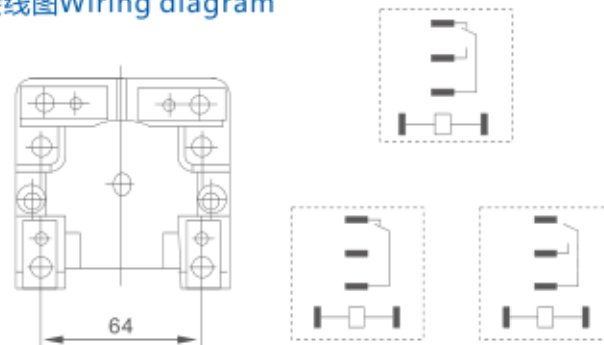
产品性能Product performance

触点 contact	触点形式 Contact Form	1Z
	触点负载(阻性)Contact load (resistive)	120A、250VAC/30VDC
	电气/机械寿命 Electrical life/ Mechanical life	≥3×10 ⁴ 次 ≥1×10 ⁶ 次
	接触电阻 Contact Resistance	≤100mΩ
	触点材料 Contact Material	AgSn02
性能 function	绝缘电阻 Insulation Resistance (MΩ)	≥200MΩ(500VDC)
	介质耐压 Dielectric Strength	同极触点之间≥1000VAC/1min Between the same pole contacts /
	线圈与触点间≥2500VAC/1min Between contact and coil	
	吸合/释放时间 Operate time/Release time	≤25ms/25ms
引出端方式 Terminal Type	螺丝式Screw type	
线圈 coil	额定线圈功率DC/AC Rated coil power DC/AC	120A:DC2.0W/AC4VA

外形尺寸图External dimensions (mm)



接线图Wiring diagram



特大功率单转换系列Large Power Conversion



HW-250F

产品特点Product characteristics

- ✦ 结构牢固抗冲击抗振动性强使用寿命长
Strong structure, strong impact resistance, strong vibration resistance and long service life
- ✦ 负载切换电流: 250A
Load switching current:250A
- ✦ 螺栓式安装
retaining bolt installation
- ✦ 可提供1组触点转换
it can provide 1 set of contact conversion

型号及其含义Type and meaning

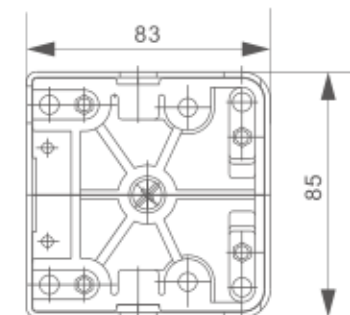
HW	250F	1Z	<input type="checkbox"/>	<input type="checkbox"/>	D	<input type="checkbox"/>	VDC
1	2	3	4	5	6	7	

- | | |
|--|--|
| 1 企业代号
Enterprise Code | 5 安装方式: 螺栓式安装
mounted type: retaining bolt installation |
| 2 设计序号
Serial Number | 6 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection |
| 3 触点组数: 1
Number of contact groups: two | 7 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage |
| 4 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact | |

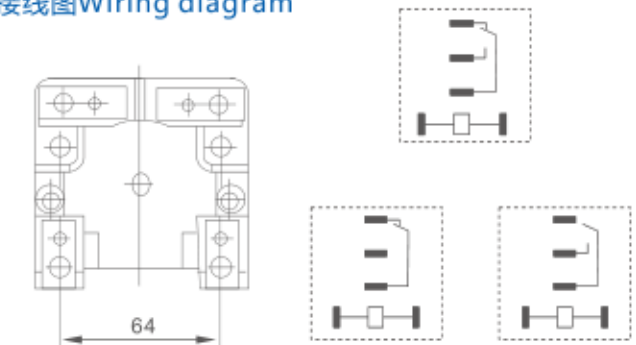
产品性能Product performance

触点 contact	触点形式 Contact Form	1Z
	触点负载(阻性)Contact load (resistive)	250A、250VAC/30VDC
	电气/机械寿命 Electrical life/ Mechanical life	≥3×10 ⁴ 次 ≥1×10 ⁶ 次
	接触电阻 Contact Resistance	≤100mΩ
	触点材料 Contact Material	AgSn02
性能 function	绝缘电阻 Insulation Resistance (MΩ)	≥200MΩ(500VDC)
	介质耐压 Dielectric Strength	同极触点之间≥1000VAC/1min Between the same pole contacts /
	线圈与触点间≥2500VAC/1min Between contact and coil	
	吸合/释放时间 Operate time/Release time	≤25ms/25ms
引出端方式 Terminal Type	螺丝式Screw type	
线圈 coil	额定线圈功率DC/AC Rated coil power DC/AC	250A:DC2.0W/AC4VA

外形尺寸图External dimensions (mm)



接线图Wiring diagram



通用继电器系列 General-Purpose Relay



通用继电器系列General-Purpose Relay



HW-MK2P

HW-MK3P

产品特点Product characteristics

- ✦ 体积小重量轻灵敏度高使用寿命长
Small size, light weight and high sensitivity and long service life
- ✦ 可提供2组和3组(10A)触点转换
it can provide 2 sets and 3 sets(10A) of contact conversion
- ✦ 插座式安装
Socket mounted
- ✦ 可选配指示灯和二极管
it can match the indicator lamp and diode

型号及其含义Type and meaning

HW	MK	2	□	-	□	L	D	□	VDC
①	②	③	④	⑤	⑥	⑦	⑧		

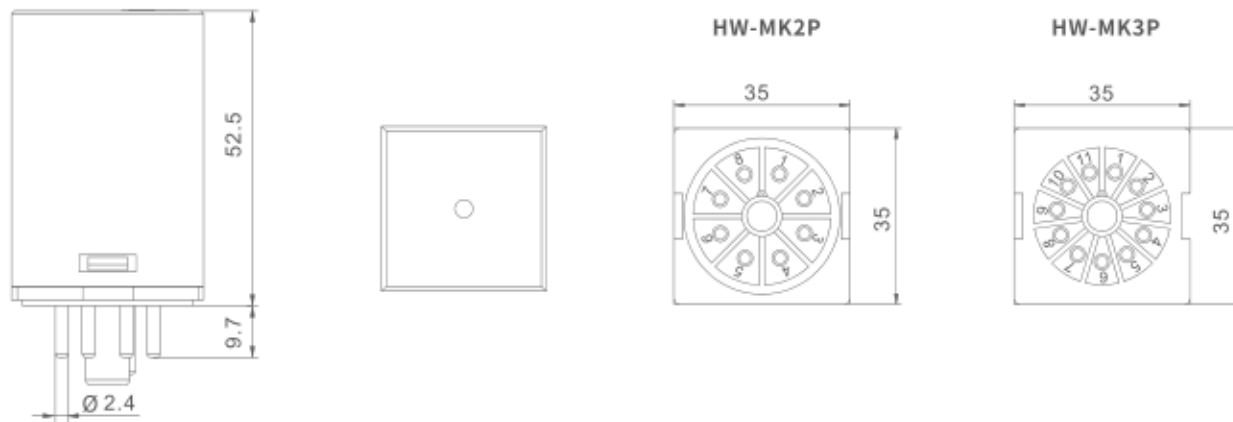
- | | |
|---|---|
| <p>① 企业代号
Enterprise Code</p> <p>② 设计序号
Serial Number</p> <p>③ 触点组数: 2、3
Number of contact groups: two,three</p> <p>④ 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type H-normally open contact D-normally closed contact</p> | <p>⑤ 安装方式: 插拔式
mounted type: plug-in moulded</p> <p>⑥ 工作状态: L:LED指示 无字母: 无指示
operating state:L:LED indicate No Letters:no indicate</p> <p>⑦ 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection</p> <p>⑧ 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage</p> |
|---|---|

产品性能Product performance

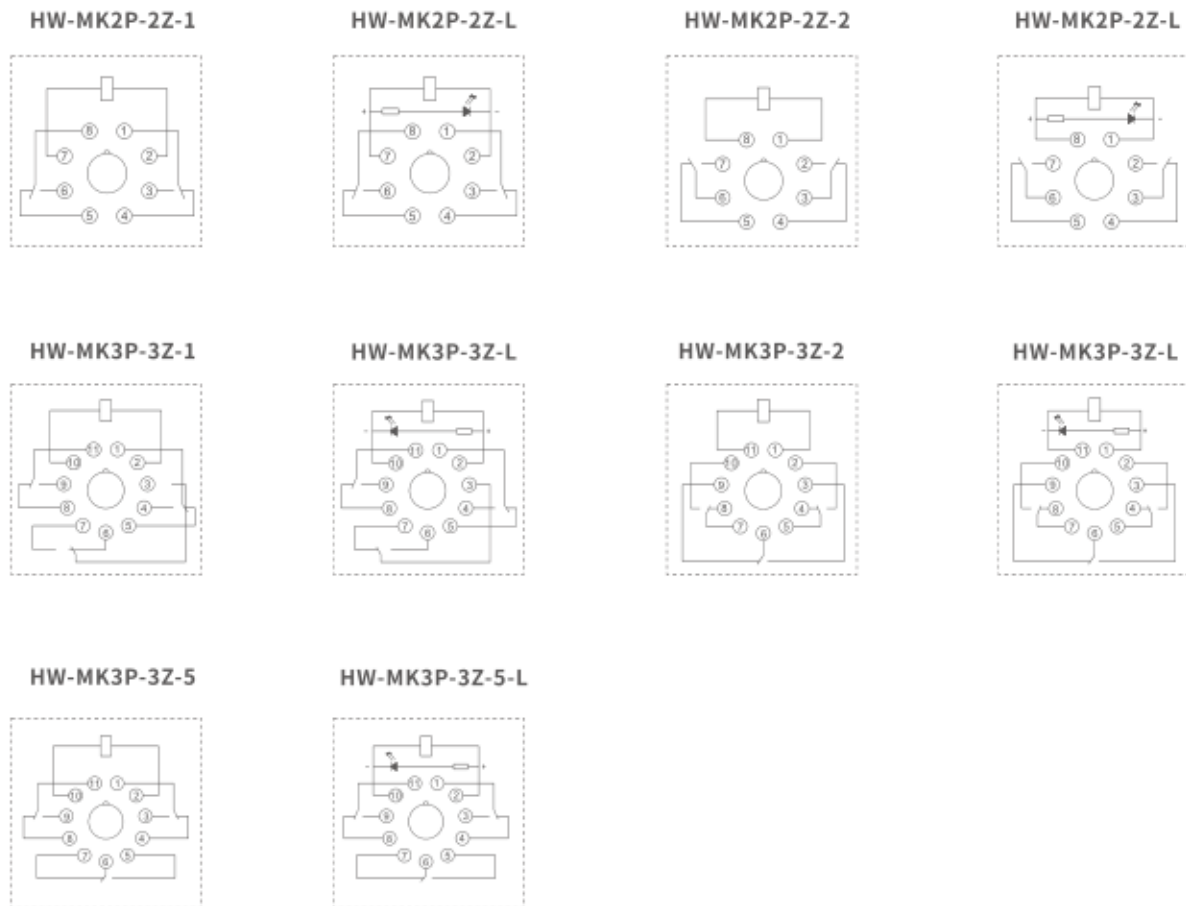
接触电阻 Contact resistance	≤100mΩ
电气寿命 Electrical life	≥5×10 ⁴ 次
机械寿命 Mechanical life	≥1×10 ⁶ 次
线圈电压 Coil voltage	DC:6-220V AC:6-380V.
吸合时间 Suction time	≤20ms ;
释放时间 Release time	≤15ms
同极触点之间 Between the same pole contacts	1000VAC/1min(漏电流Leakage current 1 mA)
异极触点之间 Between polar contacts	1500VAC/1min(漏电流Leakage current 1 mA)
触点与线圈间 Between contact and coil	2000VAC/1min(漏电流Leakage current 1mA)
绝缘电阻 Insulation resistance	≥100MΩ(500VDC)
环境温度 Ambient temperature	-25°C ~ +55°C
环境湿度 Ambient humidity	35% ~ 80%RH
大气压力 Atmospheric pressure	86 ~ 106KPa
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.5mm
尺寸 dimension	35X35X55mm
重量 weight	约around 75g

通用继电器系列General-Purpose Relay

外形尺寸图External dimensions (mm)



接线图Wiring diagram



通用继电器系列General-Purpose Relay



产品特点Product characteristics

- 体积小重量轻灵敏度高使用寿命长
Small size, light weight and high sensitivity and long service life
- 可提供2组和3组(10A)触点转换
it can provide 2 sets and 3 sets(10A) of contact conversion
- 插座式安装
Socket mounted
- 可选配指示灯和二极管
it can match the indicator lamp and diode

型号及其含义Type and meaning

HW MK 2 T - □ L □ VDC
1 2 3 4 5 6 7

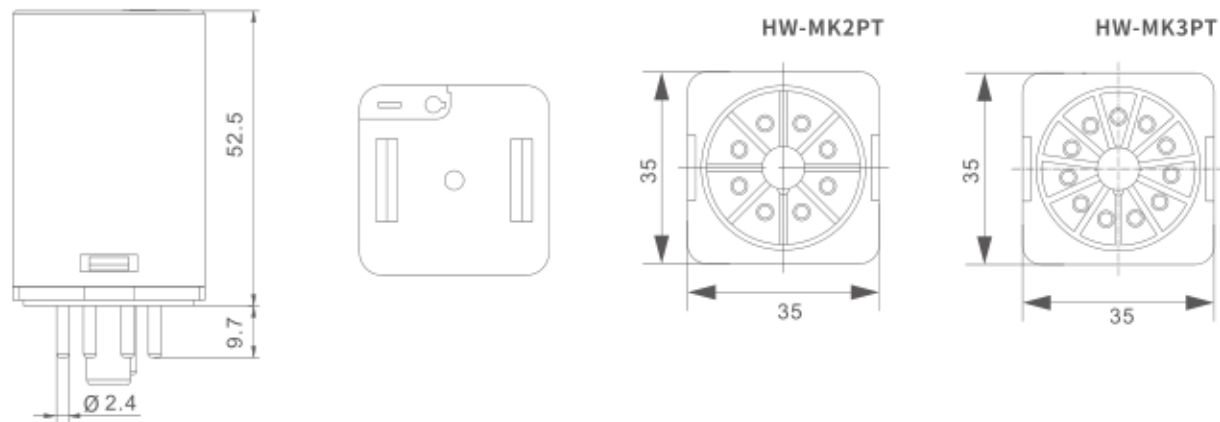
- 1 企业代号
Enterprise Code
- 2 设计序号
Serial Number
- 3 触点组数: 2, 3
Number of contact groups: two,three
- 4 辅助功能: T: 自锁 G: 机械指示D/C R: 抑制保护
auxiliary function : T-Self-locking G-mechanical indicate D/CR-Inhibitory protection
- 5 安装方式: 插拔式
mounted type: plug-in moulded
- 6 工作状态: L:LED指示 无字母: 无指示
operating state:L:LED indicate No Letters:no indicate
- 7 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage

产品性能Product performance

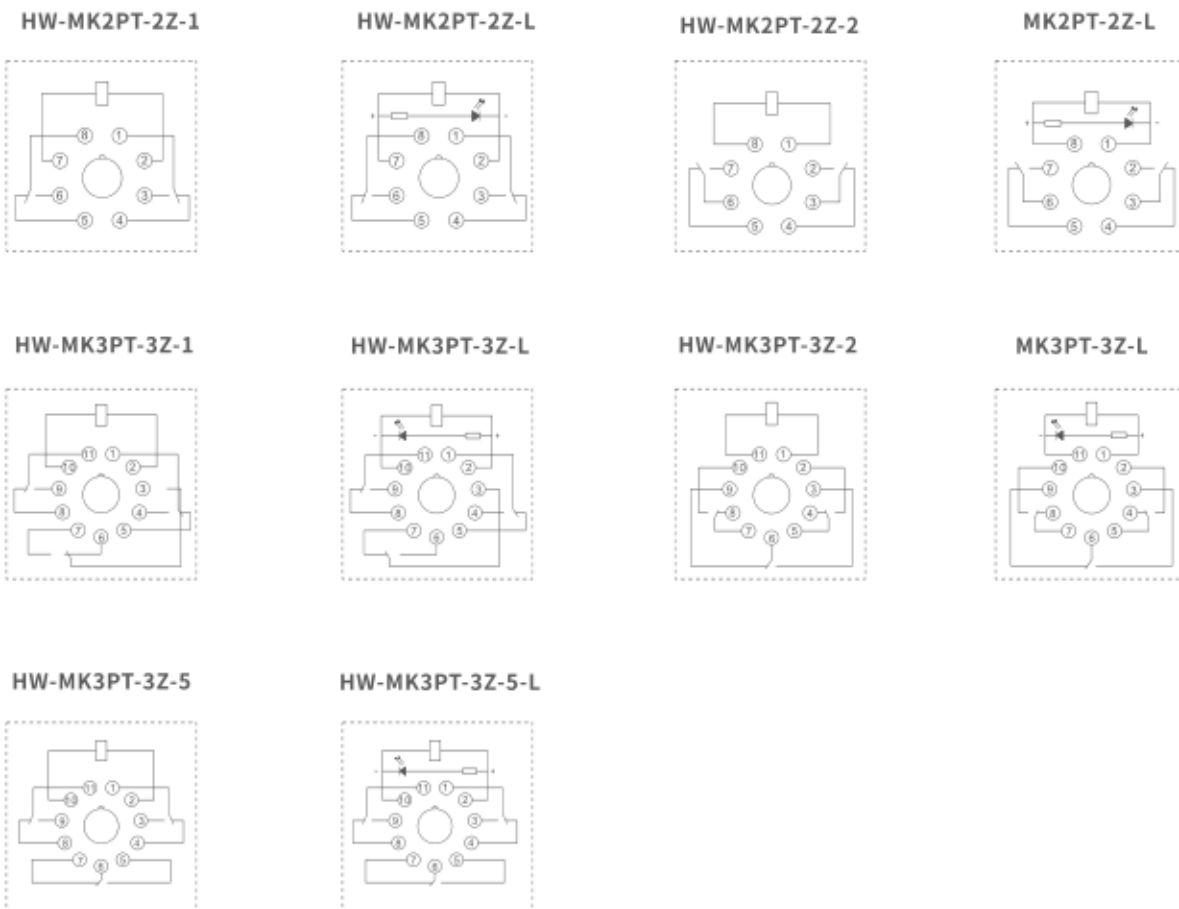
接触电阻 Contact resistance	≤100mΩ
电气寿命 Electrical life	≥1×10 ⁵ 次
机械寿命 Mechanical life	≥1×10 ⁶ 次
线圈电压 Coil voltage	DC:6-220V AC:6-380V.
吸合时间 Suction time	≤20ms ;
释放时间 Release time	≤15ms
同极触点之间 Between the same pole contacts	1000VAC/1min(漏电流Leakage current 1 mA)
异极触点之间 Between polar contacts	1500VAC/1min(漏电流Leakage current 1 mA)
触点与线圈间 Between contact and coil	2000VAC/1min(漏电流Leakage current 1mA)
绝缘电阻 Insulation resistance	≥100MΩ(500VDC)
环境温度 Ambient temperature	-25°C ~ +55°C
环境湿度 Ambient humidity	35% ~ 80%RH
大气压力 Atmospheric pressure	86 ~ 106KPa
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.5mm
尺寸 dimension	35X35X55mm
重量 weight	约around 75g

通用继电器系列General-Purpose Relay

外形尺寸图External dimensions (mm)



接线图Wiring diagram



通用继电器系列General-Purpose Relay



产品特点Product characteristics

- + 体积小重量轻灵敏度高使用寿命长
Small size, light weight and high sensitivity and long service life
- + 可提供2组和3组(10A)触点转换
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- + 插座式安装
Socket mounted
- + 可选配指示灯和二极管
it can match the indicator lamp and diode

型号及其含义Type and meaning

HW	10F	2	□	-	□	L	T	□	VDC
1	2	3	4	5	6	7	8		

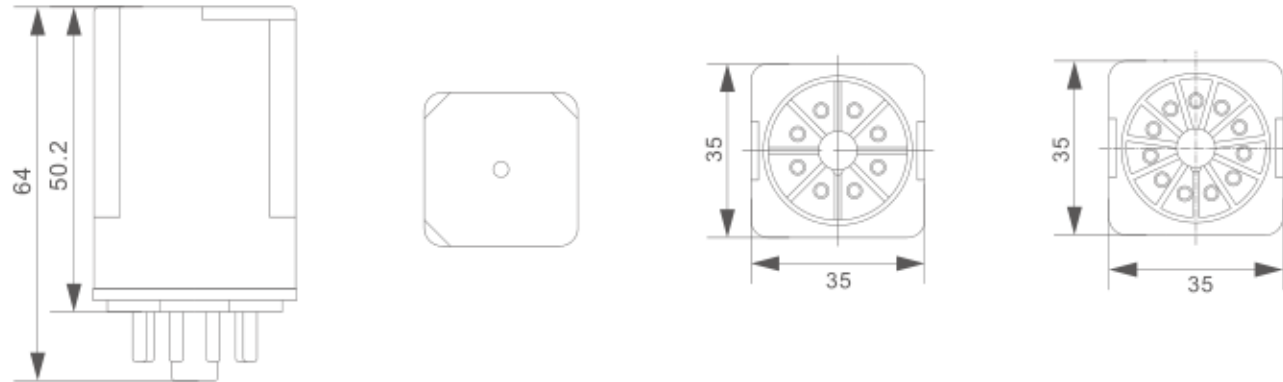
- | | |
|---|---|
| <p>1 企业代号
Enterprise Code</p> <p>2 设计序号
Serial Number</p> <p>3 触点组数: 2、3
Number of contact groups: two,three</p> <p>4 触点形式: Z转换 H常开 D常闭
Contact Form: z-conversion type D-normally closed contact</p> | <p>5 安装方式: 插拔式
mounted type: plug-in moulded</p> <p>6 工作状态: L:LED指示 无字母: 无指示
operating state:L:LED indicate No Letters:no indicate</p> <p>7 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection</p> <p>8 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage</p> |
|---|---|

产品性能Product performance

接触电阻 Contact resistance	≤100mΩ
电气寿命 Electrical life	≥1×10 ⁵ 次
机械寿命 Mechanical life	≥1×10 ⁶ 次
线圈电压 Coil voltage	DC:6-220V AC:6-380V.
吸合时间 Suction time	≤20ms ;
释放时间 Release time	≤15ms
同极触点之间 Between the same pole contacts	1000VAC/1min(漏电流Leakage current 1 mA)
异极触点之间 Between polar contacts	1500VAC/1min(漏电流Leakage current 1 mA)
触点与线圈间 Between contact and coil	2000VAC/1min(漏电流Leakage current 1mA)
绝缘电阻 Insulation resistance	≥100MΩ(500VDC)
环境温度 Ambient temperature	-25°C ~ +55°C
环境湿度 Ambient humidity	35% ~ 80%RH
大气压力 Atmospheric pressure	86 ~ 106KPa
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.5mm
尺寸 dimension	35X35X55mm
重量 weight	约around 75g

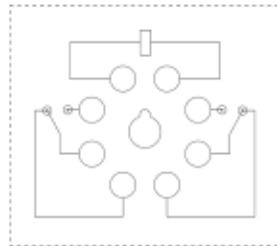
通用继电器系列General-Purpose Relay

外形尺寸图External dimensions (mm)

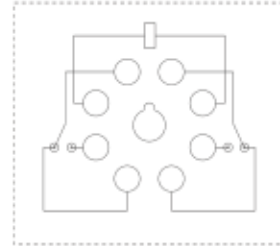


接线图Wiring diagram

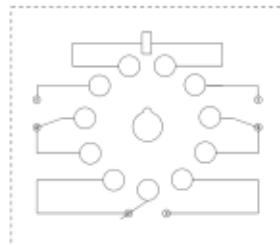
HW-10F-2Z(JTX-2Z)



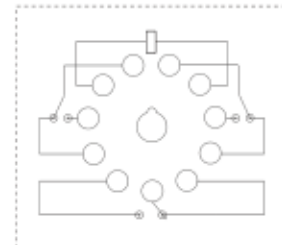
HW-10F-2Z(JQX-2Z)



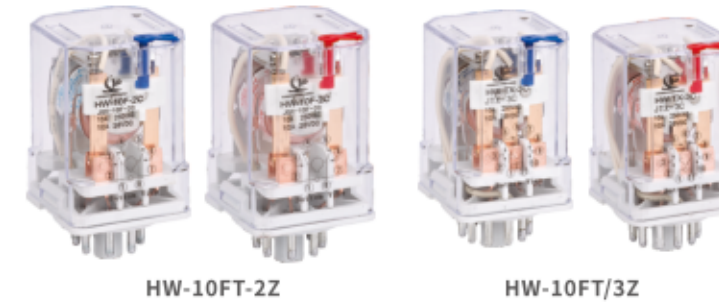
HW-10F-3Z(JTX-3Z)



HW-10F-3Z(JQX-3Z)



通用继电器系列General-Purpose Relay



产品特点Product characteristics

- 体积小重量轻灵敏度高使用寿命长
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it can provide 2 sets and 3 sets(10A) of contact conversion
- 插座式安装
Socket mounted
- 可选配指示灯和二极管
it can match the indicator lamp and diode

型号及其含义Type and meaning

HW	10F	T	2	-	□	L	D	□	VDC
1	2	3	4	5	6	7	8		

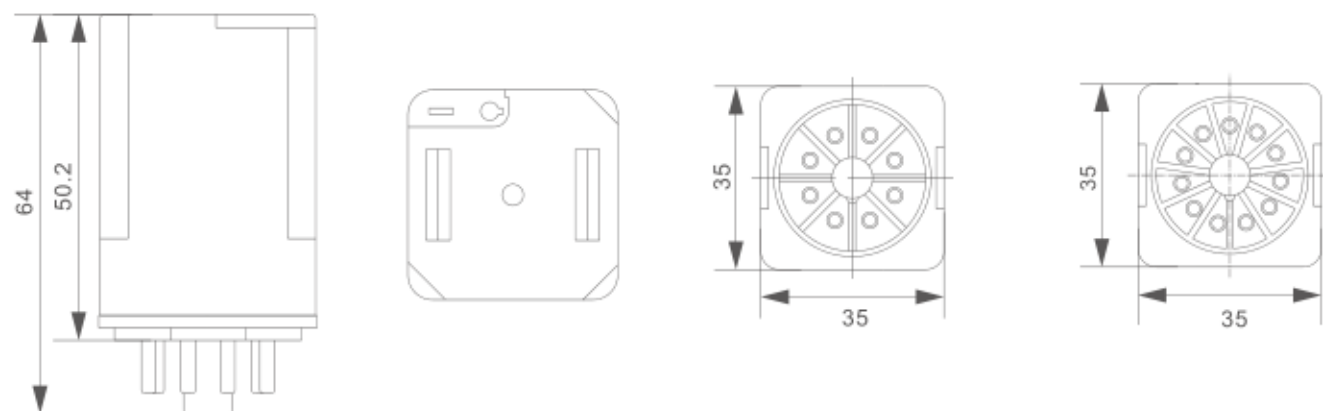
- 企业代号
Enterprise Code
- 设计序号
Serial Number
- 辅助功能: T: 自锁 G: 机械指示D/C R: 抑制保护
auxiliary function : T-Self-locking G-mechanical indicate D/CR-Inhibitory protection
- 触点组数: 2、3
Number of contact groups: two,three
- 安装方式: 插拔式
mounted type: plug-in moulded
- 工作状态: L:LED指示 无字母: 无指示
operating state:L:LED indicate No Letters:no indicate
- 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage

产品性能Product performance

接触电阻 Contact resistance	≤100mΩ
电气寿命 Electrical life	≥1×10 ⁵ 次
机械寿命 Mechanical life	≥1×10 ⁶ 次
线圈电压 Coil voltage	DC:6-220V AC:6-380V.
吸合时间 Suction time	≤20ms ;
释放时间 Release time	≤15ms
同极触点之间 Between the same pole contacts	1000VAC/1min(漏电流Leakage current 1 mA)
异极触点之间 Between polar contacts	1500VAC/1min(漏电流Leakage current 1 mA)
触点与线圈间 Between contact and coil	2000VAC/1min(漏电流Leakage current 1mA)
绝缘电阻 Insulation resistance	≥100MΩ(500VDC)
环境温度 Ambient temperature	-25°C ~ +55°C
环境湿度 Ambient humidity	35% ~ 80%RH
大气压力 Atmospheric pressure	86 ~ 106KPa
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.5mm
尺寸 dimension	35X35X55mm
重量 weight	约around 75g

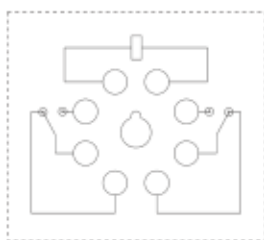
通用继电器系列 General-Purpose Relay

外形尺寸图 External dimensions (mm)

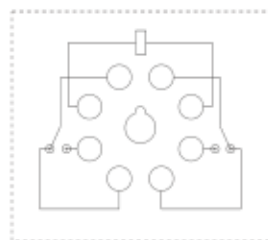


接线图 Wiring diagram

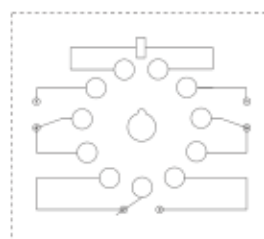
HW-10FT-2Z(JTX-2Z)



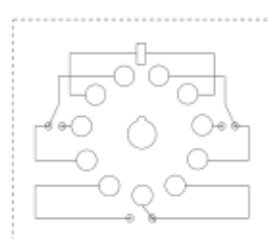
HW-10FT-2Z(JQX-2Z)



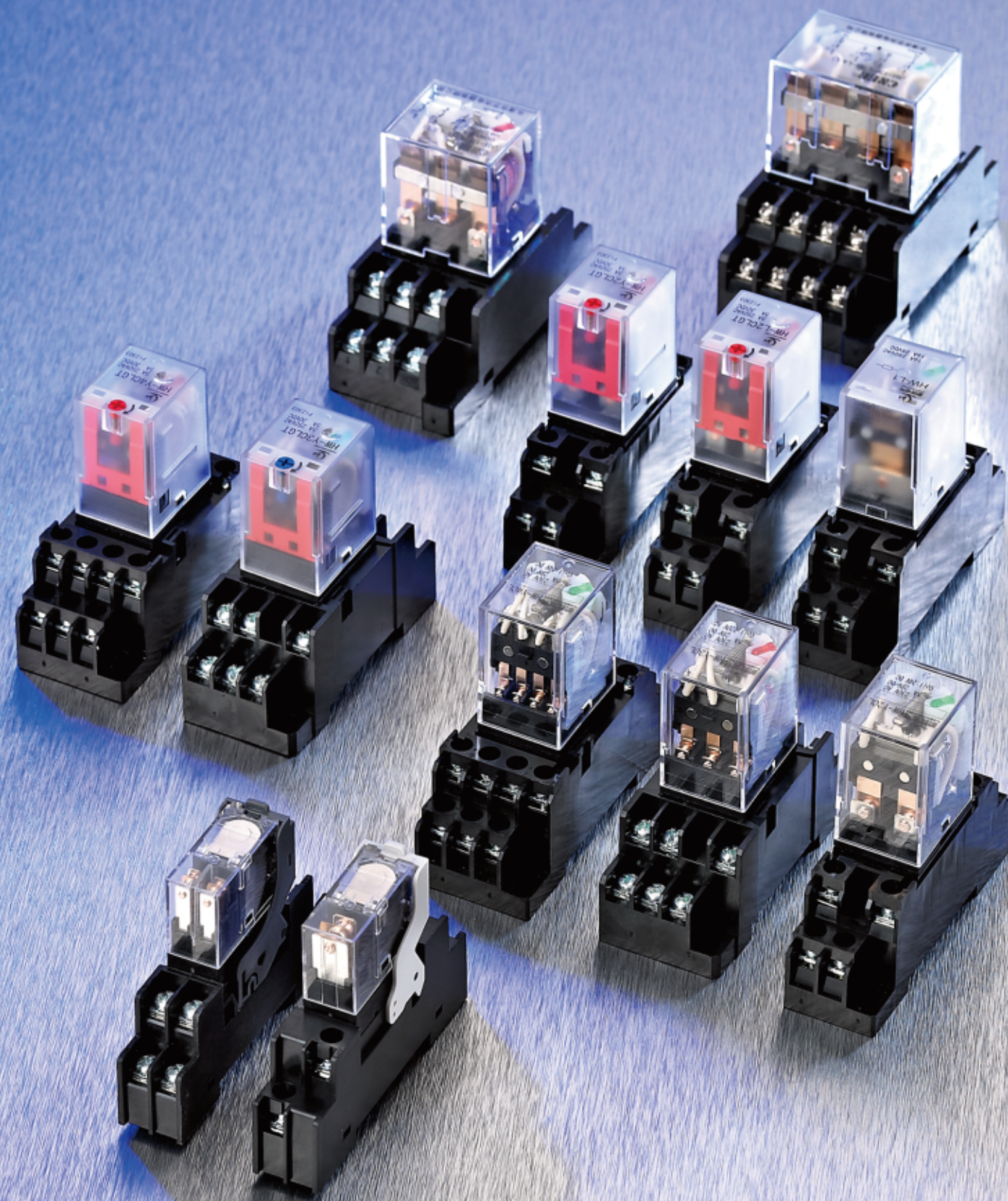
HW-10FT-3Z(JTX-3Z)



HW-10FT-3Z(JQX-3Z)



电磁继电器系列 Electromagnetic Relay



电磁继电器系列 Electromagnetic Relay

可选插座系列 Optional socket series



PYF08A-E
(HW-Y2)



PYF11A
(HW-Y3)



PYF14A-E
(HW-Y4)



PTF08A-E
(HW-L2)

继电器
Relay



插座
Socket



电磁继电器系列 Electromagnetic Relay



HW-Y2CL



HW-Y3CL



HW-Y4CL



HW-L2CL

产品特点 Product characteristics

- + 产品具有系列化，基本型、改良型、功能型等；
Products have serialization, basic type, improved type, functional type and so on
- + 工作状态 LED 指示，线圈电压直流带 LED 型可选无极输入；
Working state LED indicator, coil voltage DC with LED optional infinite input
- + 结构新颖、设计巧妙、外形美观大方、耐电性能高、具备多项专利；
Novel structure, ingenious design, beautiful appearance, high electric resistance, with multiple patents
- + 改良型和功能型继电器壳体具有多种固定卡簧安装设计。
Improved and functional relay cover has a variety of fixed circlip design for mounting

型号及其含义 Type and meaning

HW	Y	4	□	-	P	L	T	□	VDC
①	②	③	④	⑤	⑥	⑦	⑧		

- 1 企业代号
Enterprise Code
- 2 设计序号: 常规款
Serial Number: Regular
- 3 触点组数: 2、3、4
Number of contact groups: two, three, four
- 4 触点形式: C转换 A常开 B常闭
Contact Form: C-conversion type B-normally closed contact
- 5 安装方式: F:法兰式 P:PCB式 无字母: 插拔式
mounted type: F:flange mounted type P:PCB mounted type
No Letters: plug-in mounted
- 6 工作状态: L:LED指示 无字母: 无指示
operating state: L:LED indicate No Letters: no indicate
- 7 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection
- 8 线圈电压: DC为直流 AC为交流
Coil Voltage: DC is for direct voltage AC is for alternating voltage

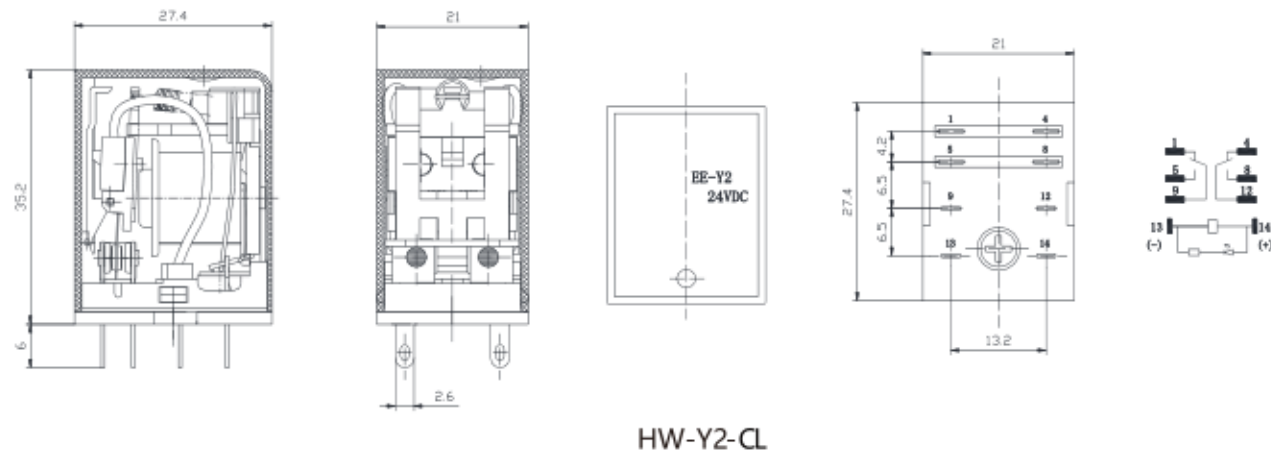
产品性能 Product performance

产品型号 Model	HW - Y2	HW - Y3	HW - Y4	HW - L2
外形尺寸 Dimension ± 0.5mm	长Long × 宽Wide × 高High 27.4 × 21.0 × 35.4mm			
触点形式 Contact Form	2 (A, B, C)	3 (A, B, C)	4 (A, B, C)	2 (A, B, C)
触点材料 Contact Material	银氧化镉AgCdo、银氧化锡AgSno2、银合金 Silver Alloy			
触点容量 (阻性) Resistance Performance Of Contactor Capacity	10A 28VDC/240VAC	7A 28VDC/240VAC	5A 28VDC/240VAC	10A 28VDC/240VAC
接触电阻 Contact Resistance	≤ 50mΩ			
线圈功率 Coil Power	AC	1.2VA		
	DC	0.9W		
线圈电压 Coil Voltage	AC	6 ~ 380VAC		
	DC	6 ~ 220VDC		

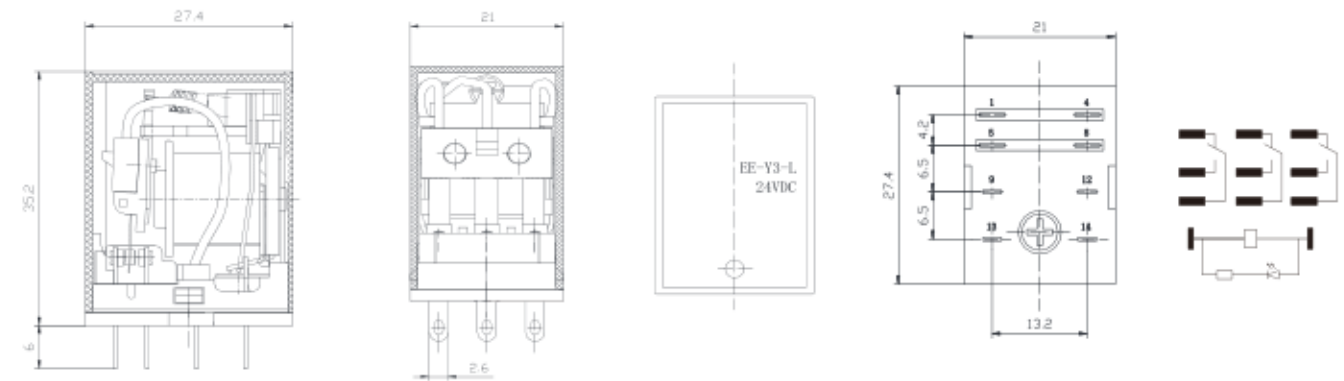
电磁继电器系列 Electromagnetic Relay

吸合时间 (额定电压)	Operate time	≤ 15ms			
释放时间 (额定电压)	Release time	≤ 15ms			
吸合电压	Pick - up Voltage	DC: ≤ 75%、AC: ≤ 80%			
释放电压	Drop - out Voltage	DC: ≥ 10%、AC: ≥ 30%			
最大电压	Max Voltage	110%			
介质耐压 Dielectric Strength	开路触点间 Between Open Contacts	1000VAC/1min (漏电流Leakage current 1mA)			
	触点组间 Contacts Pieces	1200VAC/1min (漏电流Leakage current 1mA)			
	线圈与触点间 Between Coil&Contacts	1500VAC/1min (漏电流Leakage current 1mA)			
绝缘电阻 Insulation Resistance (MΩ)		≥ 500MΩ (500VDC)			
触点形式: Service Life	电气 Electrical (次)	≥ 1 × 10 ⁵ 次 (1800 Ops/h)			
	机械 Mechanical (次)	≥ 1 × 10 ⁷ 次 (18000 Ops/h)			
环境温度	Ambient Temperature (°C)	- 25 ~ +55°C			
环境湿度	Humidity	35%~ 85%RH			
大气压力	Atmospheric Pressure	86 ~ 106KPa			
耐冲击	Shock resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)			
耐振动	Vibration resistance	10~55Hz双振幅Double amplitude: 1.0mm			
引出端形式	Terminal Type	插拔式 Insert Type			
防护形式	Protection Type	封闭式 Close Type			
配用插座	Suitable Socket	PYF08A	PYF11A	PYF14A	PTF08A
产品重量	Product Weight (g)	约around 35g	约around 35g	约around 40g	约around 40g
同类产品参照	Same Reference	MY2	MY3	MY4	LY2

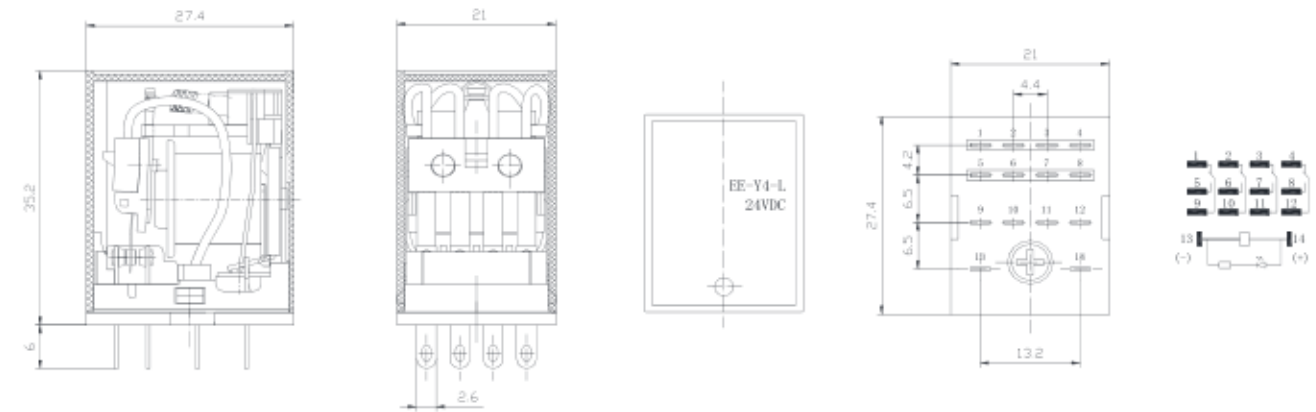
外形尺寸图 External dimensions (mm)



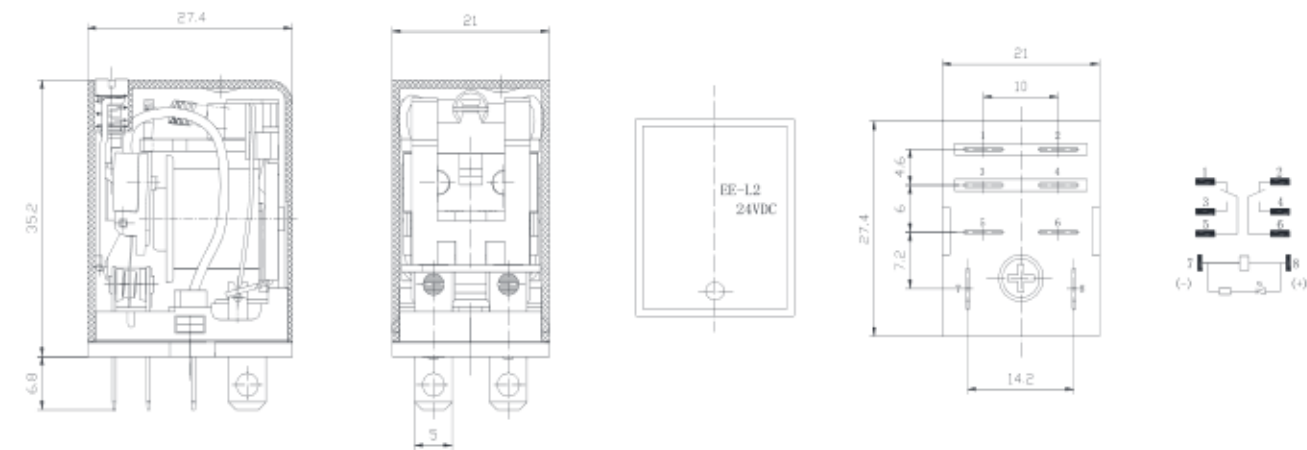
电磁继电器系列 Electromagnetic Relay



HW-Y3-CL



HW-Y4-CL



HW-L2-CL

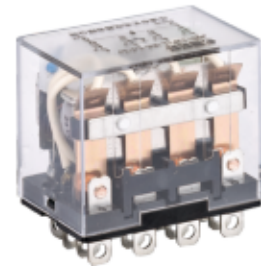
电磁继电器系列 Electromagnetic Relay



HW-L1CL



HW-L3CL



HW-L4CL

产品特点 Product characteristics

- 产品具有系列化，基本型、改良型、功能型等；
Products have serialization, basic type, improved type, functional type and so on
- 结构新颖、设计巧妙、外形美观大方、耐电性能高、具备多项专利；
Novel structure, ingenious design, beautiful appearance, high electric resistance, with multiple patents
- 工作状态 LED 指示，线圈电压直流带 LED 型可选无极输入；
Working state LED indicator, coil voltage DC with LED optional infinite input
- 改良型和功能型继电器壳体具有多种固定卡簧安装设计。
Improved and functional relay cover has a variety of fixed circlip design for mounting

型号及其含义 Type and meaning

HW	Y	4	□	-	P	L	T	□	VDC
1	2	3	4	5	6	7	8		

- 企业代号
Enterprise Code
- 设计序号: L系列
Serial Number: L etc
- 触点组数: 1、2、3、4
Number of contact groups: one two, three, four
- 触点形式: C转换 A常开 B常闭
A-normally open contact
Contact Form: C-conversion type B-normally closed contact
- 安装方式: F:法兰式 P:PCB式 无字母: 插拔式
mounted type: F:flange mounted type P:PCB mounted type
No Letters: plug-in mouted
- 工作状态: L:LED指示 无字母: 无指示
operating state:L:LED indicate No Letters:no indicate
- 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection
- 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage

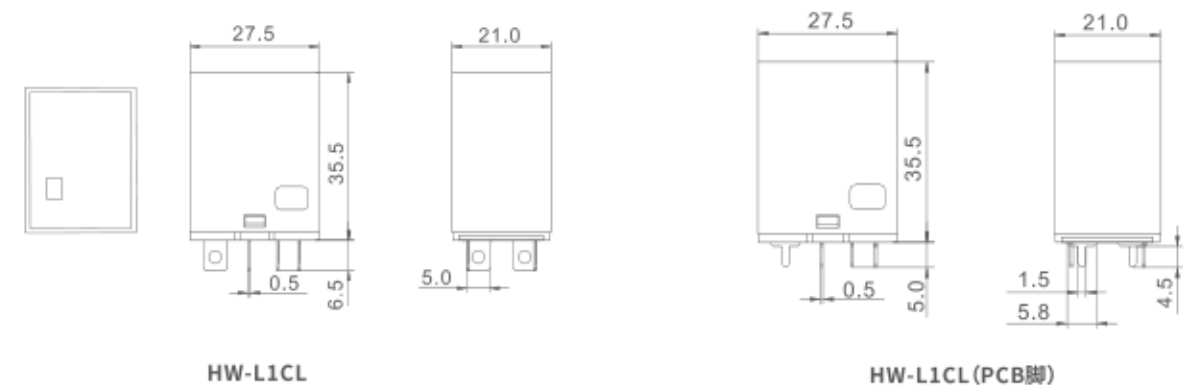
产品性能 Product performance

产品型号 Model	HW-L1CL	HW-L3CL	HW-L4CL
外形尺寸 Dimension ± 0.5mm	27.4 × 21.0 × 35.4mm	27.3 X 31 X 35mm	27.3 X 41 X 35mm
触点形式 Contact Form	1 (C、A、B)	3 (C、A、B)	4 (C、A、B)
触点材料 Contact Material	银氧化镉、银氧化锡、银合金 Silver Alloy (镀金) 可选		
触点容量 (阻性) Resistance Performance Of Contactor Capacity	16A 28VDC/240VAC	10A 28VDC/240VAC	10A 28VDC/240VAC
接触电阻 Contact Resistance	≤ 50m Ω		
线圈功率 Coil Power	AC	1.2VA	
	DC	0.9W	
线圈电压 Coil Voltage	AC	6 ~ 380VAC	
	DC	6 ~ 220VDC	

电磁继电器系列 Electromagnetic Relay

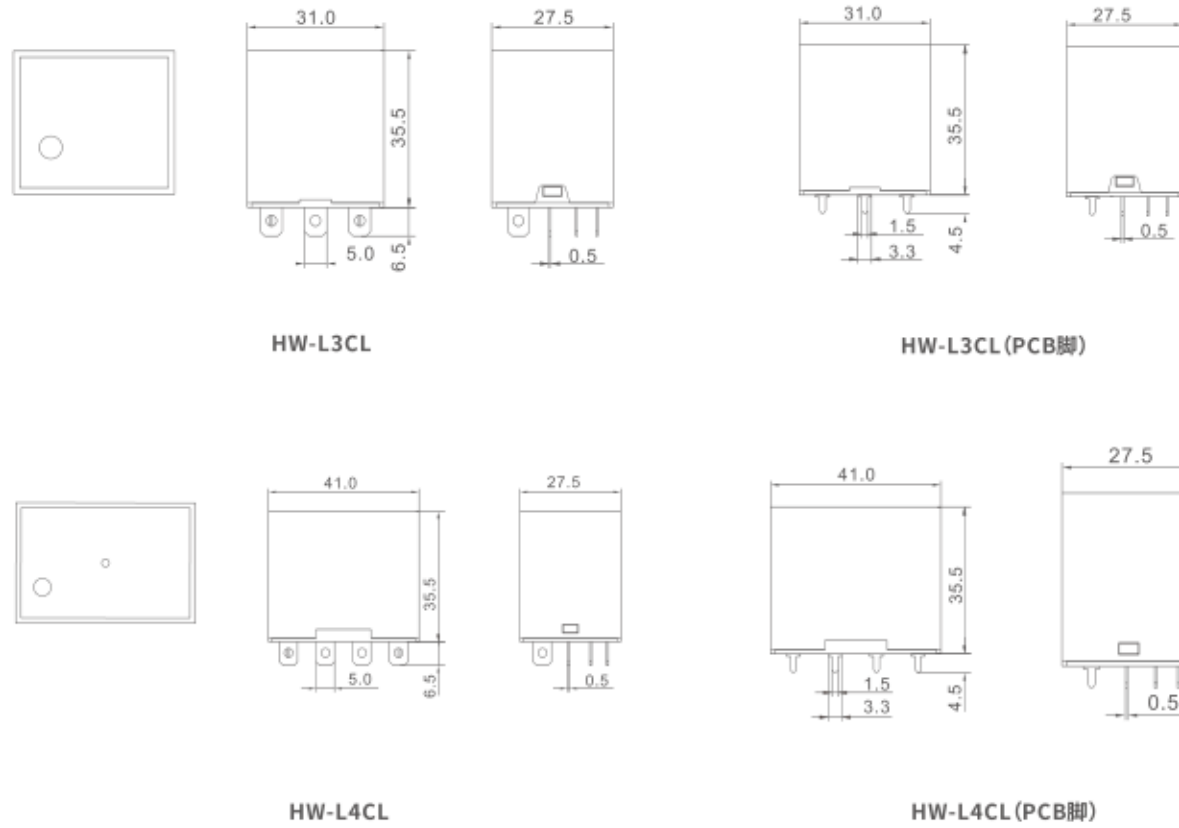
吸合时间 (额定电压) Operate time	≤ 15ms		
释放时间 (额定电压) Release time	≤ 15ms		
吸合电压 Pick - up Voltage	DC: ≤ 75%、AC: ≤ 80%		
释放电压 Drop - out Voltage	DC: ≥ 10%、AC: ≥ 30%		
最大电压 Max Voltage	110%		
介质耐压 Dielectric Strength	开路触点间 Between Open Contacts	1000VAC/1min (漏电流Leakage current 1mA)	
	触点组间 Contacts Pieces	1200VAC/1min (漏电流Leakage current 1mA)	
	线圈与触点间 Between Coil&Contacts	1500VAC/1min (漏电流Leakage current 1mA)	
绝缘电阻 Insulation Resistance (MΩ)	≥ 500MΩ (500VDC)		
工作寿命 Service Life	电气 Electrical (次)	≥ 1 × 10 ⁵ 次 (1800 Ops/h)	
	机械 Mechanical (次)	≥ 1 × 10 ⁷ 次 (18000 Ops/h)	
环境温度 Ambient Temperature (°C)	- 25 ~ +55°C		
环境湿度 Humidity	35%~ 85%RH		
大气压力 Atmospheric Pressure	86 ~ 106KPa		
耐冲击 Shock resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)		
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.0mm		
引出端形式 Terminal Type	插拔式 Insert Type		
防护形式 Protection Type	封闭式 Close Type		
配用插座 Suitable Socket	PTF08A	PTF11A	PTF14A
产品重量 Product Weight (g)	约around 35g	约around 50g	约around 65g
同类产品参照 Same Reference	LY1	LY3	LY4

外形尺寸图 External dimensions (mm)

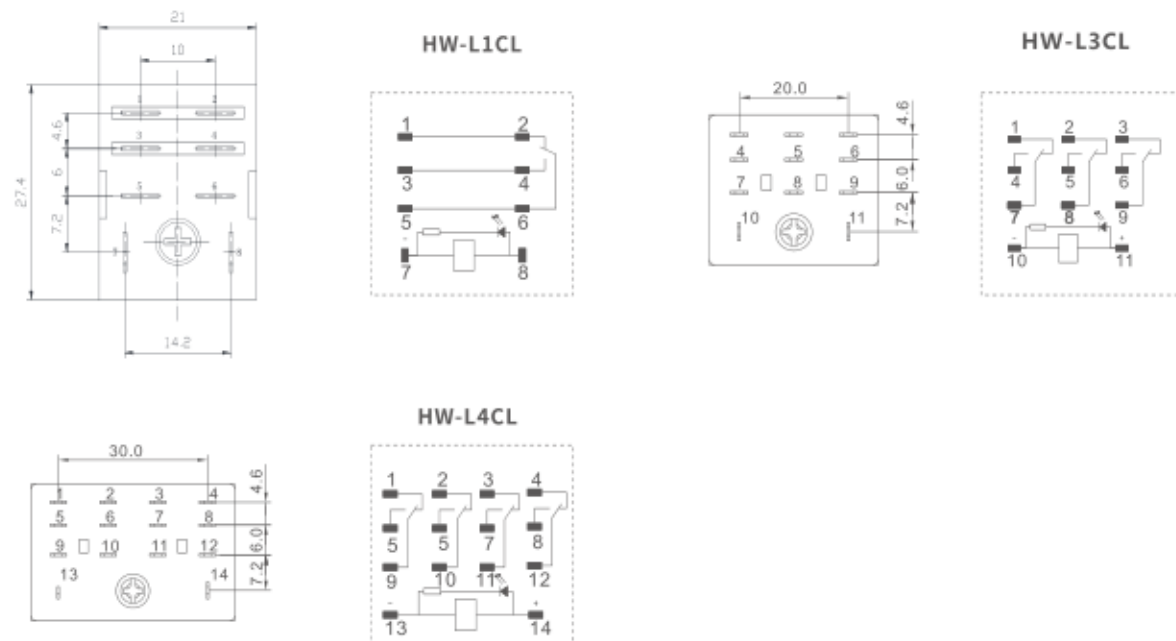


电磁继电器系列 Electromagnetic Relay

外形尺寸图 External dimensions (mm)



接线图 Wiring diagram



电磁继电器系列 Electromagnetic Relay



产品特点 Product characteristics

- 产品具有系列化，基本型、改良型、功能型等；
Products have serialization, basic type, improved type, functional type and so on
- 功能型可用于手动改变触点状态，具有点动测试和自锁两种功能；
Functional type can be used to manually change the contact state which also has two functions: point test and self-lock
- 工作状态 LED 指示，线圈电压直流带 LED 型可选无极输入；
Working state LED indicator, coil voltage DC with LED optional infinite input
- 结构新颖、设计巧妙、外形美观大方、耐电性能高、具备多项专利；
Novel structure, ingenious design, beautiful appearance, high electric resistance, with multiple patents
- 改良型具有动作状态机械指示窗；
improved type with action state Mechanical indicator window
- 改良型和功能型继电器壳体具有多种固定卡簧安装设计。
Improved and functional relay cover has a variety of fixed circlip design for mounting

型号及其含义 Type and meaning

HW	Y	4	□	-	P	L	T	□	VDC
1	2	3	4	5	6	7	8		

- 企业代号
Enterprise Code
- 设计序号: Y 系列
Serial Number: Y etc
- 触点组数: 2、3、4
Number of contact groups: two, three, four
- 触点形式: C 转换 A 常开 B 常闭
A-normally open contact
Contact Form: C-conversion type B-normally closed contact
- 安装方式: F: 法兰式 P: PCB 式 无字母: 插拔式
mounted type: F: flange mounted type P: PCB mounted type
No Letters: plug-in mounted
- 工作状态: L: LED 指示 无字母: 无指示
operating state: L: LED indicate No Letters: no indicate
- 辅助功能: D/CR 抑制保护 T 自锁 G 带机械指示扣
auxiliary function: D/CR Inhibitory protection T self-locking
G with mechanical indicator buckle
- 线圈电压: DC 为直流 AC 为交流
Coil Voltage: DC is for direct voltage AC is for alternating voltage

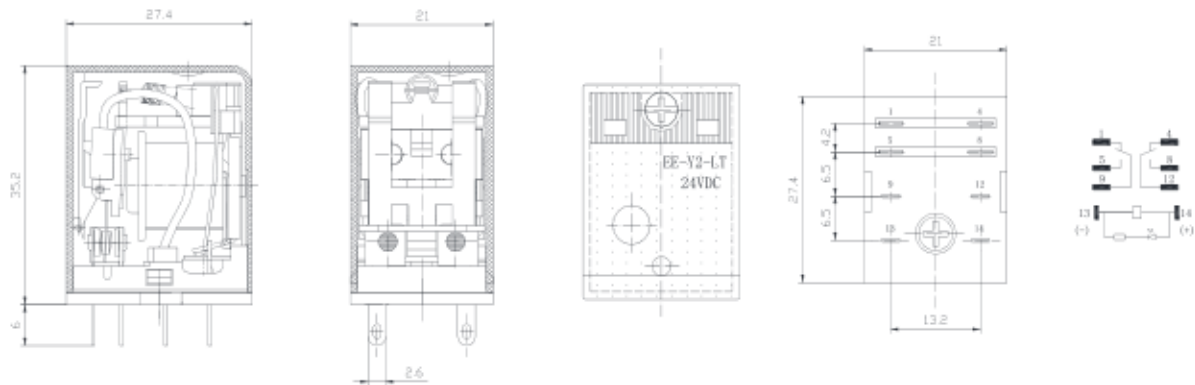
产品性能 Product performance

产品型号 Model	HW - Y2	HW - Y3	HW - Y4	HW - L2
外形尺寸 Dimension ± 0.5mm	长Long × 宽Wide × 高High 27.4 × 21.0 × 35.4mm			
触点形式 Contact Form	2 (A, B, C)	3 (A, B, C)	4 (A, B, C)	2 (A, B, C)
触点材料 Contact Material	银氧化镉AgCdo、银氧化锡AgSno2、银合金Silver Alloy			
触点容量 (阻性) Resistance Performance Of Contactor Capacity	10A 28VDC/240VAC	7A 28VDC/240VAC	5A 28VDC/240VAC	10A 28VDC/240VAC
接触电阻 Contact Resistance	≤ 50mΩ			
线圈功率 Coil Power	AC		1.2VA	
	DC		0.9W	
线圈电压 Coil Voltage	AC		6 ~ 380VAC	
	DC		6 ~ 220VDC	

电磁继电器系列 Electromagnetic Relay

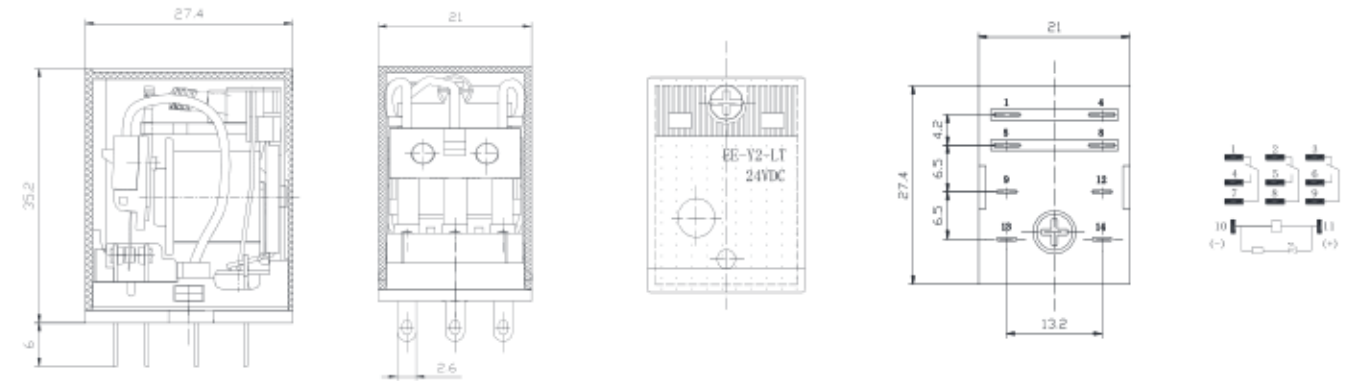
吸合时间 (额定电压)	Operate time	≤ 15ms			
释放时间 (额定电压)	Release time	≤ 15ms			
吸合电压	Pick - up Voltage	DC: ≤ 75%、AC: ≤ 80%			
释放电压	Drop - out Voltage	DC: ≥ 10%、AC: ≥ 30%			
最大电压	Max Voltage	110%			
介质耐压 Dielectric Strength	开路触点间 Between Open Contacts	1000VAC/1min (漏电流Leakage current 1mA)			
	触点组间 Contacts Pieces	1200VAC/1min (漏电流Leakage current 1mA)			
	线圈与触点间 Between Coil&Contacts	1500VAC/1min (漏电流Leakage current 1mA)			
绝缘电阻 Insulation Resistance (MΩ)		≥ 500MΩ (500VDC)			
工作寿命 Service Life	电气 Electrical (次)	≥ 1 × 10 ⁵ 次 (1800 Ops/h)			
	机械 Mechanical (次)	≥ 1 × 10 ⁷ 次 (18000 Ops/h)			
环境温度	Ambient Temperature (°C)	- 25 ~ +55°C			
环境湿度	Humidity	35%~ 85%RH			
大气压力	Atmospheric Pressure	86 ~ 106KPa			
耐冲击	Shock resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)			
耐振动	Vibration resistance	10~55Hz双振幅Double amplitude: 1.0mm			
引出端形式	Terminal Type	插拔式 Insert Type			
防护形式	Protection Type	封闭式 Close Type			
配用插座	Suitable Socket	PYF08A	PYF11A	PYF14A	PTF08A
产品重量	Product Weight (g)	约around 35g	约around 35g	约around 40g	约around 40g
同类产品参照	Same Reference	MY2	MY3	MY4	LY2

外形尺寸图 External dimensions (mm)

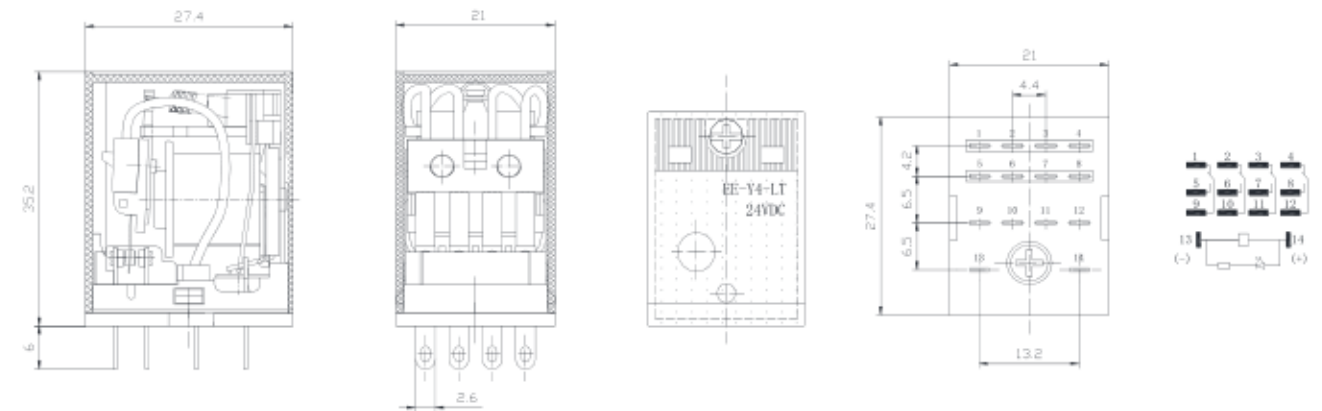


HW-Y2-LT

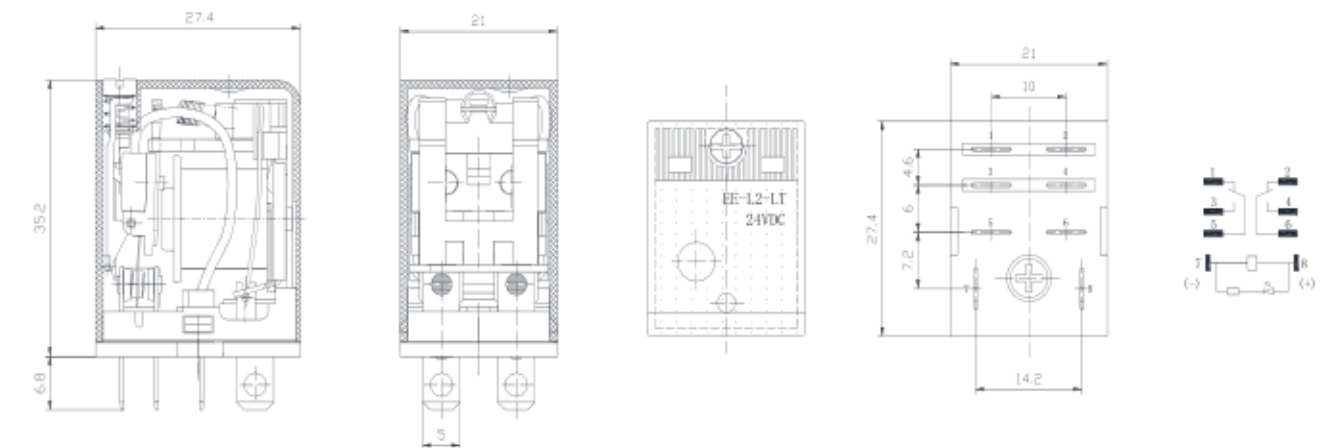
电磁继电器系列 Electromagnetic Relay



HW-Y3-LT



HW-Y4-LT



HW-L2-LT

电磁继电器系列 Electromagnetic Relay



HW-14F1Z

HW-14F2Z

产品特点 Product characteristics

- + 体积小, 安装方便
small size ,easy installation
- + 触点负载大, 1Z 12A; 2Z 8A
contact with large load:1Z 12A
- + 灵敏度高
high sensitivity
- + 插入式安装
plug in mounted

型号及其含义 Type and meaning

HW	14F	□	□	-	P	L	D	□	VDC
1	2	3	4	5	6	7	8		

- | | |
|---|--|
| <p>1 企业代号
Enterprise Code</p> <p>2 设计序号: 14F
Serial Number: 14F</p> <p>3 触点组数: 1、2
Number of contact groups: one、two</p> <p>4 触点形式: Z转换 H常开 D常闭 H-normally open contact
Contact Form: Z-conversion type D-normally closed contact</p> | <p>5 安装方式: P:PCB式 无字母: 插拔式
mounted type: P:PCB mounted type No Letters: plug-in moudted</p> <p>6 工作状态: L:LED指示 无字母: 无指示
operating state:L:LED indicate No Letters:no indicate</p> <p>7 辅助功能: D/CR抑制保护
auxiliary function :D/CRInhibitory protection</p> <p>8 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage</p> |
|---|--|

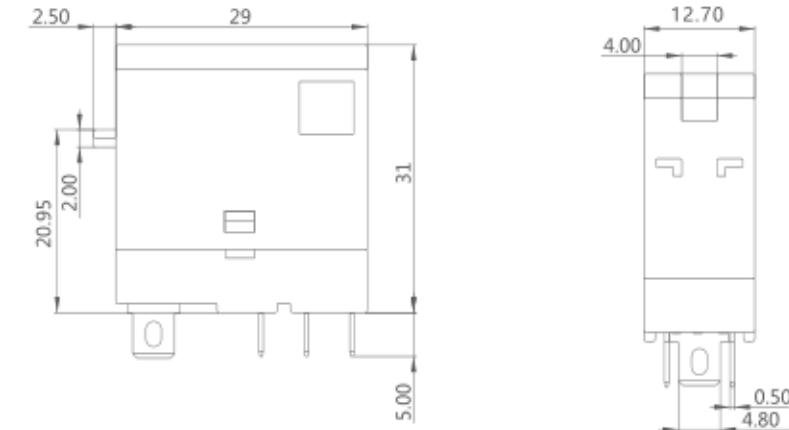
产品性能 Product performance

触点参数 Contact parameters	触点形式 Contact Form	1Z,1H,1D	2Z,2H,2D	
	负载 load	阻性 Hindrance	10A,16/250VAC,30VDC	5A,8/250VAC,30VDC
		马达 motor	1/3HP,240VAC;1/2HP,240AC	1/6HP,240VAC
	切换功率 Switching power	2500VA,300W;4000VA,480W 1250VA,150W;2000VA,240W		
	接触电阻 Contact Resistance	≤100mΩ		
	接触材料 Contact Material	银合金 Silver Alloy		
	电气寿命 Electrical life	≥10 ⁵ 次		
机械寿命 Mechanical life	≥10 ⁶ 次			
吸合电压 Pick - up Voltage	DC:≤75%, AC:≤80%			
释放电压 Drop - out Voltage	DC:≥10%, AC:≥30%			
最大电压 Max Voltage	110%			
绝缘电阻 Insulation Resistance	≥1000MΩ(500VDC)			
线圈功率 Coil voltage	DC(W)	约0.53		
	AC(VA)	约1.0		
吸合时间 Suction time	≤20ms			
释放时间 Release time	≤10ms			
初始耐压 Initial withstand voltage	同极触点之间 Between the same pole contacts	1200VAC/1min (漏电流 Leakage current)		
	异极触点之间 Between polar contacts	1500VAC/1min (漏电流 Leakage current)		
	触点与线圈间 Between contact and coil	2500VAC/1min (漏电流 Leakage current)		
环境温度 Ambient temperature	-25°C+55°C			
环境湿度 Ambient humidity	35%~85%RH			
大气压力 Atmospheric pressure	86~106KPa			
耐冲击 Impact resistance	10G (正弦半波脉冲 Sine half wave pulse: 11ms)			
耐振动 Vibration resistance	10~55Hz双振幅 Double amplitude: 1.0mm			
安装方式 mounted type	插拔式 plug-in moudted			
重量 weight	约 around 20g			

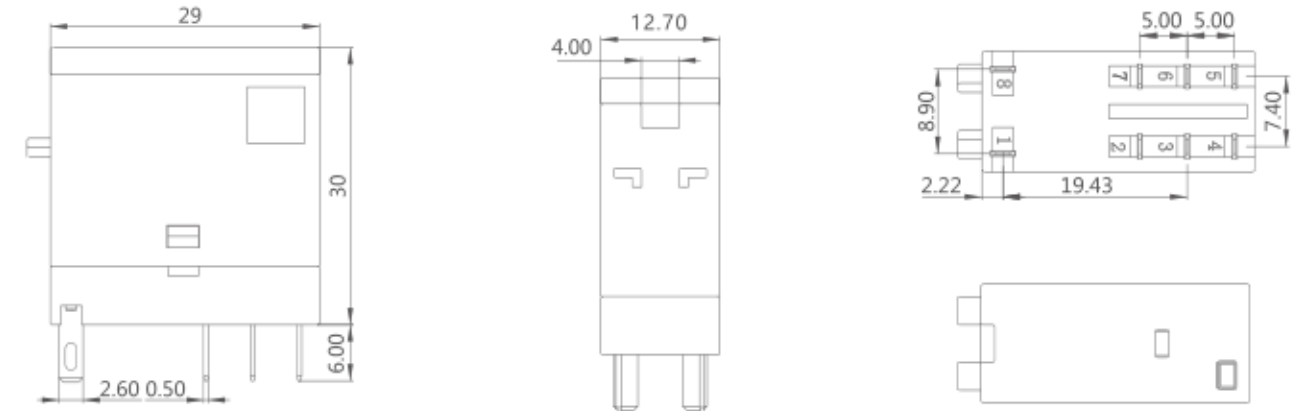
电磁继电器系列 Electromagnetic Relay

外形尺寸图 External dimensions (mm)

HW-14F1Z

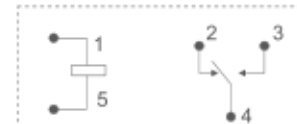


HW-14F2Z

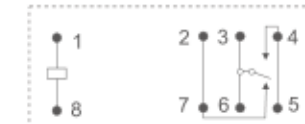


接线图 Wiring diagram

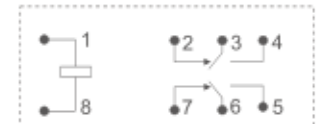
HW-14FC-1C



HW-14FC-1CH



HW-14FC-2C



电磁继电器系列Electromagnetic Relay



HW-14FT1Z



HW-14FT2Z

产品特点Product characteristics

- + 体积小, 安装方便
small size ,easy installation
- + 触点负载大, 1Z 12A; 2Z 8A
contact with large load:1Z 12A
- + 灵敏度高
high sensitivity
- + 插入式安装
plug in mounted

型号及其含义Type and meaning

HW	14F	□	□	-	P	L	T	□	VDC
1	2	3	4	5	6	7	8		

- | | |
|--|--|
| <p>1 企业代号
Enterprise Code</p> <p>2 设计序号
Serial Number</p> <p>3 触点组数: 1、2
Number of contact groups: one、 two</p> <p>4 触点形式: Z转换 H常开 D常闭 H-normally open contact
Contact Form: Z-conversion type D-normally closed contact</p> | <p>5 安装方式: P:PCB式 无字母: 插拔式
mounted type: P:PCB mounted type No Letters: plug-in moudted</p> <p>6 工作状态: L:LED指示 无字母: 无指示
operating state:L:LED indicate No Letters:no indicate</p> <p>7 辅助功能: T盖板式 G机械指示 D/CR抑制保护
auxiliary function : T-Cover plate type G-mechanical indicate D/CR-Inhibitory protection</p> <p>8 线圈电压: DC为直流 AC为交流
Coil Voltage:DC is for direct voltage AC is for alternating voltage</p> |
|--|--|

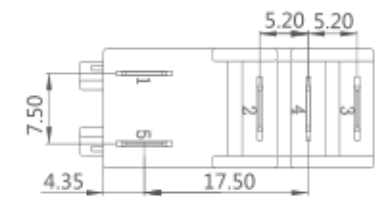
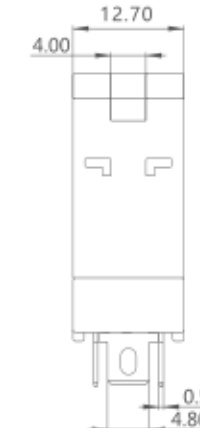
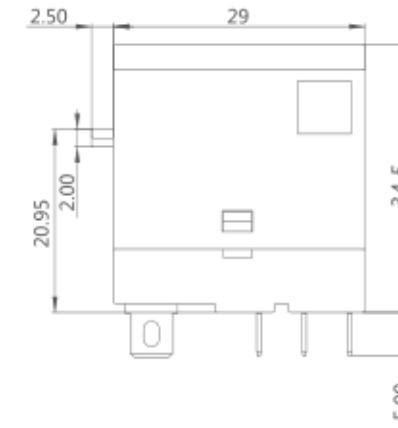
产品性能Product performance

触点参数 Contact parameters	触点形式 Contact Form	1Z,1H,1D	2Z,2H,2D	
	触点负载 Contact load	12A/250VAC, 30VDC	8A/250VAC, 30VDC	
	切换功率Switching power	3000VA, 360W	2000VA, 240W	
	接触电阻 Contact Resistance	≤100mΩ		
	触点材料 Contact Material	Ag alloy		
	电气寿命Electrical life	1×10 ⁵ 次		
	机械寿命Mechanical life	AC:3×10 ⁶ 次 DC:5×10 ⁶ 次		
	吸合电压 Pick - up Voltage	DC:≤75% , AC:≤80% 50/60Hz		
	释放电压 Drop - out Voltage	DC:≥10% ,AC:≥30% 50/60Hz		
	最大电压 Max Voltage	110%		
性能参数	线圈功率 Coil voltage	DC (W)	约0.53	
		AC (VA)	约0.9	
	吸合时间 Suction time	≤20ms		
	释放时间 Release time	AC	≤20ms	
		DC	≤10ms	
	绝缘电阻 Insulation Resistance	≥1000MΩ (500VDC)		
	介质耐压 Dielectric Strength	同极触点之间 Between the same pole contacts	1200VAC/1min (漏电流Leakage current)	
		异极触点之间 Between polar contacts	1500VAC/1min (漏电流Leakage current)	
		触点与线圈间 Between contact and coil	2500VAC/1min (漏电流Leakage current)	
	环境温度 Ambient temperature	-25°C+55°C		
	环境湿度 Ambient humidity	5%~85%RH		
	大气压力 Atmospheric pressure	86~106KPa		
耐冲击 Impact resistance	10G (正弦半波脉冲Sine half wave pulse: 11ms)			
耐振动 Vibration resistance	10~55Hz双振幅Double amplitude: 1.0mm			
安装方式mounted type	插拔式plug-in moudted			
重量 weight	约around 20g			

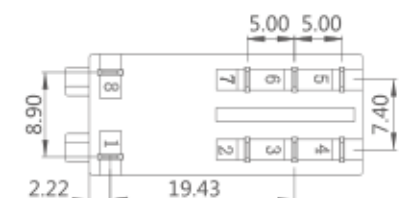
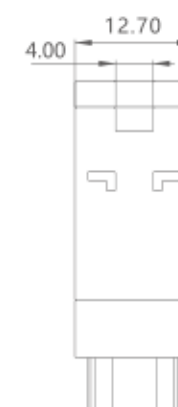
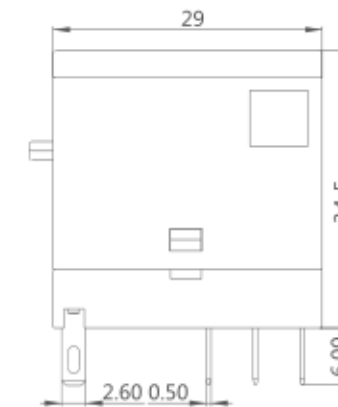
电磁继电器系列Electromagnetic Relay

外形尺寸图External dimensions (mm)

HW-14FT1Z

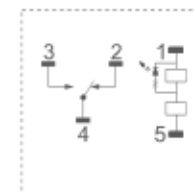


HW-14FT2Z

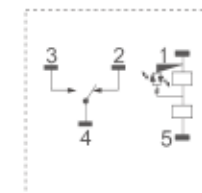


接线图Wiring diagram

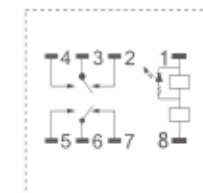
HW-14FT1ZAC



HW-14FT1ZDC



HW-14FT2ZAC



HW-14FT2ZDC

