JRC-23F (HFD23)

SUBMINIATURE SIGNAL RELAY



File No.:E133481



File No.:CQC02001001948



Features

- Max.2A switching capability
- High sensitivity :150 mW
- 1 Form C configuration
- Sealed IP67 type available
- Environmental friendly product available (RoHS compliant)
- Outline Dimensions: 12.5 x 7.5 x 10.0 mm

CONTACT DATA	
Contact arrangement	1C
Initial contact resistance Max.	100mΩ (at 1A 6VDC)
Contact material	AgNi +Au plated
Contact rating (Res. load)	0.3A 60VDC / 0.5A 125VAC / 1A 30VDC
Max. switching voltage	125VAC / 60VDC
Max. switching current	2A
Max. switching power	62.5VA / 30W
Min. permissible load	1mA 5V
Mechanical life	1x10 ⁷ OPS (300OPS/min.)
Electrical life	1x10 ⁵ ops (30ops/min.)

CHARACTERISTICS

lation resistance	1000MΩ (at 500VDC)	
Between coil & contacts	1000VAC 1min.	
Between open contacts	400VAC 1min.	
me (at nomi. volt.)	Max. 5ms	
me (at nomi. volt.)	Max. 5ms	
ne (at nomi.volt.)	Max. 5ms	
ure rise (at nomi.volt.)	Max. 55°C	
stance	100m/s ²	
esistance	10 to 55Hz 3.3mm	
	35 to 85% RH	
emperature	-30° C to +70° C	
t	2.2g	
on	PCB (DIP)	
on	Sealed IP67	
	Between coil & contacts Between open contacts me (at nomi. volt.) me (at nomi.volt.) ne (at nomi.volt.) ure rise (at nomi.volt.) istance esistance emperature at	

Coil power	Sensitive:150mW;	Standard: 200mW	
	JNGFA KELAT		
IS IS	ONGFA RELAY O9001、ISO/TS16949 、IS	O14001、OHSAS1800	1 CERTIFIED

COIL DATA

Standard Type (200mW)			at 20 °C		
	Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Coil Current (mA)	Coil Resistance (Ω)
	1.5	1.20	0.15	132.7	11.3±10%
	3	2.40	0.30	66.7	45±10%
	5	4.00	0.50	40.0	125±10%
	6	4.80	0.60	33.3	180±10%
	9	7.20	0.90	22.2	405±10%
	12	9.60	1.20	16.7	720±10%
	24	19.20	2.40	8.33	2880±15%

Sensitive Type	(150mW)	at 20°C
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Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Coil Current (mA)	Coil Resistance (Ω)
1.5	1.20	0.15	100	15±10%
3	2.40	0.30	50.0	60±10%
5	4.00	0.50	29.9	167±10%
6	4.80	0.60	25.0	240±10%
9	7.20	0.90	16.7	540±10%
12	9.60	1.20	12.5	960±10%
24	19.20	2.40	6.25	3840±15%

Max Allowable Coil Voltage:160% Nominal Voltage at $60\,^{\circ}$ C; 150% Nominal Voltage at $70\,^{\circ}$ C.

SAFETY APPROVAL RATINGS

	1.0A 30VDC
UL&CUR	0.3A 60VDC
	0.5A 125VAC

2005 Rev. 1.01

COIL

ORDERING INFORMATION

JRC-23F / 012

1*Z*

S

XXX

Type

Coil voltage 1.5, 3, 5, 6, 9, 12, 24VDC

Contact arrangement 1Z: 1 Form C

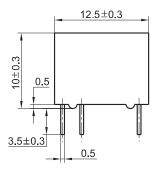
Coil power S: Sensitive type (150mW) P: Standard type (200mW)

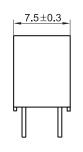
Customer special code (Only for special requirements, e.g. 555 stands for RoHS compliant)

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

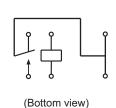
Unit: mm

Outline Dimensions

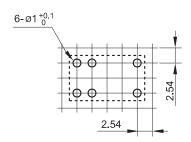




Wiring Diagram

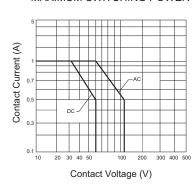


PCB Layout

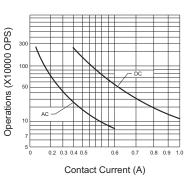


CHARACTERISTIC CURVES

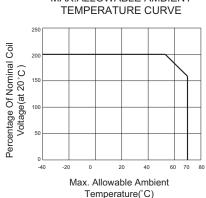
MAXIMUM SWITCHING POWER



LIFE CURVE



MAX.ALLOWABLE AMBIENT



Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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