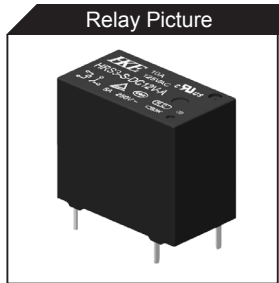
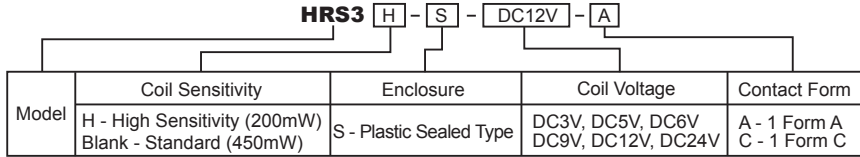




Features	
<ul style="list-style-type: none"> ▪ Microminiature relay ▪ Dimensions: 18.6×10.4×15.8(mm) ▪ Max.Switching capacity: 10A ▪ Contact: 1 Form A, 1 Form C 	
Safety Approval	
NO.1063016(LR 109368)	NO.50116132
US NO.E164730	
NO.CQC08002027611	



ORDERING INFORMATION



SPECIFICATION

CONTACT DATA

Contact Form	1 Form A, 1 Form C	
Contact Material	Ag Alloy	
Contact Rating	A: 10A 125VAC, 5A 250VAC/28VDC C: NO/NC: 5A/3A 250VAC/28VDC	
Contact Resistance	Max. 100mΩ (6VDC 1A)	
Load	Max. Switching Voltage	250VAC/28VDC
	Max. Switching Current	10A
	Max. Switching Power	1,250VA, 280W
	Min. Switching Load	5VDC, 100mA
Life	Electrical	100,000 operations
	Mechanical	10,000,000 operations

COIL DATA

Nominal Coil Power	200mW, 450mW
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GENERAL DATA

Insulation Resistance	Min. 1000MΩ 500VDC	
Dielectric Strength	Between open contacts	1,000VAC, 1min
	Between coil and contacts	A: 3,500VAC, 1 min C: 2,500VAC, 1 min
Operate Time	Max. 10ms	
Release Time	Max. 5ms	
Operating Temperature	-40°C to +85°C	
Humidity	35~95%RH, +40°C	
Shock Resistance	Endurance	1,000m/s ²
	Misoperation	100m/s ²
Vibration Resistance	Endurance	10~55Hz, 1.5mm double amplitude
	Misoperation	10~55Hz, 1.5mm double amplitude
Weight	Approximately 6.0g	

Note:Data shown are of initial value

SAFETY APPROVAL

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remarks
TUV 50116132	A/C	0.45W/0.2W	3-24VDC	NO/NC:5/3A 250VAC	Ambient Temperature: 85°C
	A	0.45W/0.2W	3-24VDC	5(1)A 250VAC	Ambient Temperature: 85°C
	A	0.45W/0.2W	3-24VDC	5(2.5)A 250VAC	Ambient Temperature: 85°C
CQC 08002027611 (GB/T 21711.1-2008)	A	0.45W/0.2W	3-24VDC	5A 250VAC	Ambient Temperature: 85°C
	C	0.45W/0.2W	3-24VDC	NO/NC: 5/3A 250VAC	Ambient Temperature: 85°C

ISO9001、ISO/TS16949、ISO14001 Approved

SAFETY APPROVAL

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remarks
UL E164730	A	0.45W/0.2W	3-24VDC	10A 28VDC	Ambient Temperature: 80°C
	A	0.45W/0.2W	3-24VDC	Tungsten filament lamp load: 8A 125VAC	Ambient Temperature: 80°C
	A	0.45W	3-24VDC	10A 125VAC	Ambient Temperature: 70°C
				5A 250VAC	Ambient Temperature: 70°C
	C	0.45W	3-24VDC	10A 277VAC	—
				NO/NC:10/3A 125VAC NO/NC:5/3A 250VAC	Ambient Temperature: 70°C
A	0.45W	3-24VDC	1/10HP 120VAC 1/6HP 240VAC	NLDX Category (N.O.Contact side)	
CSA 1063016(LR 109368)	A	0.45W/0.2W	3-24VDC	10A 28VDC	—
Explosion-proof Certificate CNEx16.3130U	A	0.45W	12VDC	5A 250VAC	Mark: Ex nC IIC Gc
				10A 125VAC	

Specifications subject to change without notice

COIL DATA

Ambient Temperature: 23°C

Model	Nominal Voltage VDC	Coil Resistance Ω +/-10%	Operate Voltage \leq VDC		Release Voltage \geq VDC	Coil Power mW
			A	C		
HRS3-S-DC3V	3	20	2.1	2.1	0.3	450
HRS3-S-DC5V	5	55	3.5	3.5	0.5	
HRS3-S-DC6V	6	80	4.2	4.2	0.6	
HRS3-S-DC9V	9	180	6.3	6.3	0.9	
HRS3-S-DC12V	12	320	8.4	8.4	1.2	
HRS3-S-DC24V	24	1280	16.8	16.8	2.4	200
HRS3H-S-DC3V	3	45	2.1	2.25	0.3	
HRS3H-S-DC5V	5	125	3.5	3.75	0.5	
HRS3H-S-DC6V	6	180	4.2	4.5	0.6	
HRS3H-S-DC9V	9	405	6.3	6.75	0.9	
HRS3H-S-DC12V	12	720	8.4	9.0	1.2	
HRS3H-S-DC24V	24	2880	16.8	18.0	2.4	

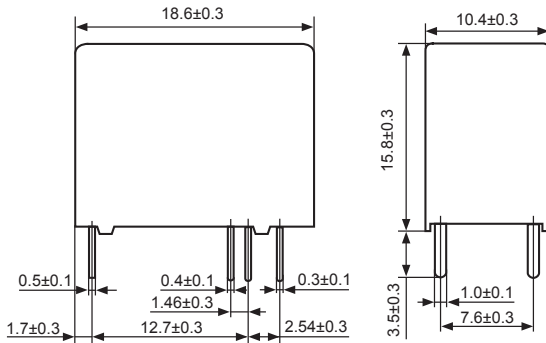
HRS3

POWER RELAY

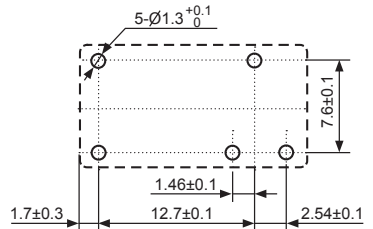
OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

1 Form C

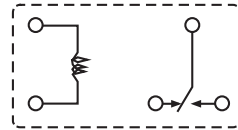
Outline



Mounting Hole Layout
(Bottom View)

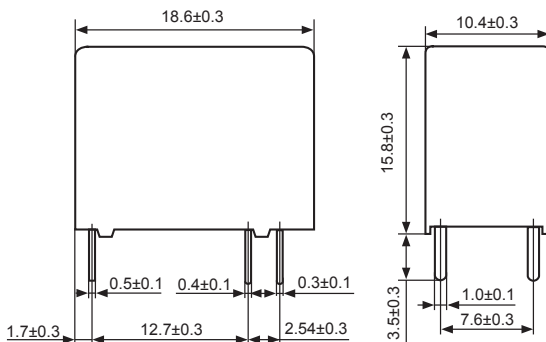


Wiring Diagram
(Bottom View)

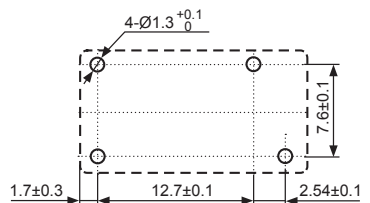


1 Form A

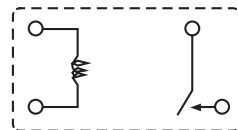
Outline



Mounting Hole Layout
(Bottom View)

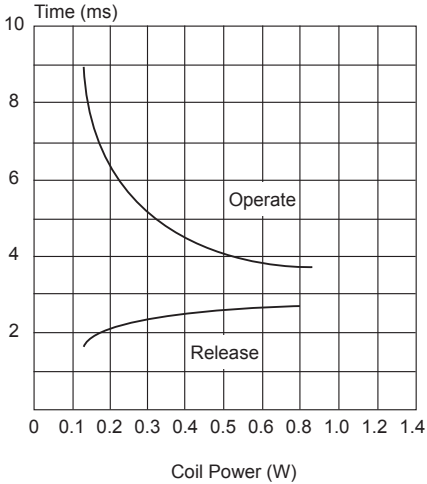


Wiring Diagram
(Bottom View)

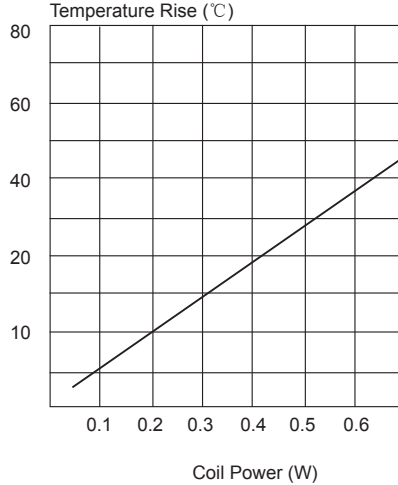


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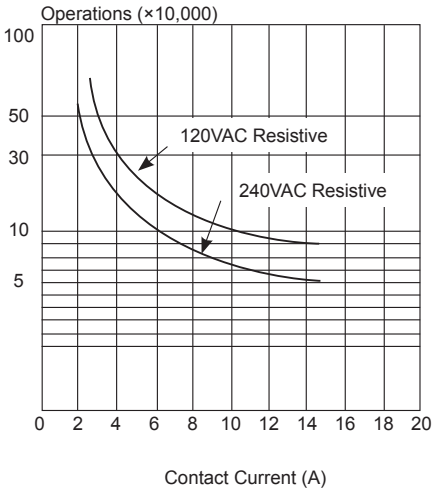
Time Curve



Coil Temperature Rise



Life Curves



Maximum Switching Power

