



Coil Data

Nominal voltage	: 5, 12 and 24V dc.
Coil resistance	: Refer to coil data chart.
Operate voltage	: Refer to coil data chart.
Release voltage	: Refer to coil data chart.
Nominal power	: 150mW, 250mW and 540mW.

Contact Data

Contact form	: 1 form A.
Contact material	: AgAlloy.
Contact rating	: 10A 250V ac / 30V dc, TV-5.
Maximum switching voltage	: 250V ac / 30V dc.
Maximum switching current	: 10A.
Maximum switching power	: 2,500VA, 300W.
Minimum switching load	: 5V dc, 100mA.
Maximum contact resistance	: 100m Ω (6V dc 1A).

Life

Electrical	: 100,000 operations.
Mechanical	: 2,000,000 operations.

General Data

Minimum insulation resistance	: 1,000M Ω 500V dc.
Dielectric strength	: 1,000V ac, 1 min between open contacts. 4,000V ac, 1 min between coil and contacts.
Sure strength	: 10,000V ac.
Maximum operate time	: 15ms.
Maximum release time	: 8ms.
Operate temperature	: -40 to +70°C.

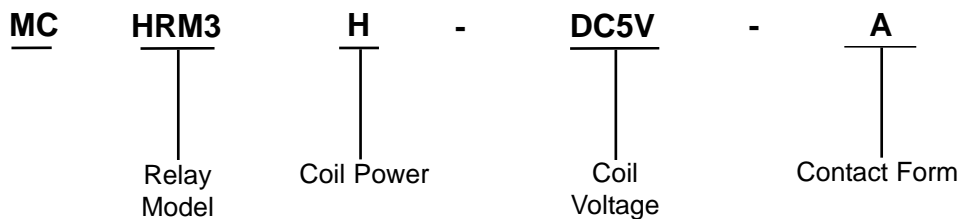
Shock Resistance

Endurance	: 1,000m/s ² .
Misoperation	: 100m/s ² .

Vibration Resistance

Endurance	: 10 to 55Hz, 1.5mm double amplitude.
Misoperation	: 10 to 55Hz, 1.5mm double amplitude.
Humidity	: 35% to 95%RH, +40°C.

Order Code

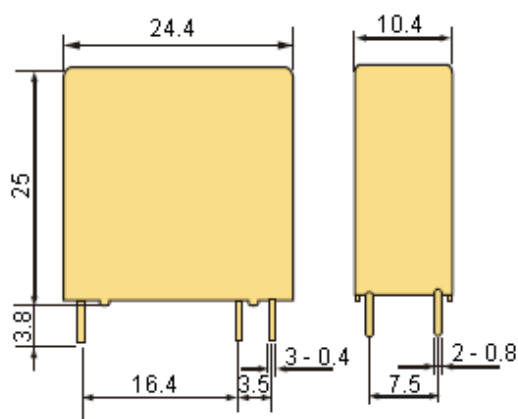


Coil Power : H = High Sensitivity 250mW.
Coil Voltage : 5 = DC5V, 12 = DC12V and 24 = DC24V.
Contact Form : A = 1 Form A.

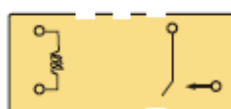
Coil Data Chart 20°C

Description	Nominal Voltage V dc	Coil Resistance $\Omega \pm 10\%$	Operate Voltage $\leq V$ dc	Release Voltage $\geq V$ dc	Coil Power mW	Part Number
Relay, Power, SPST, 5V dc Coil, 0.25W	5	100	3.75	0.5	250	MCHRM3H-DC5V-A
Relay, Power, SPST, 12V dc Coil, 0.25W	12	576	9	1.2		MCHRM3H-DC12V-A
Relay, Power, SPST, 24V dc Coil, 0.25W	24	2304	18	2.4		MCHRM3H-DC24V-A

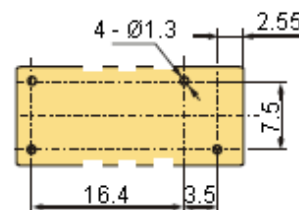
Dimensions



Wiring Diagrams (Bottom View)



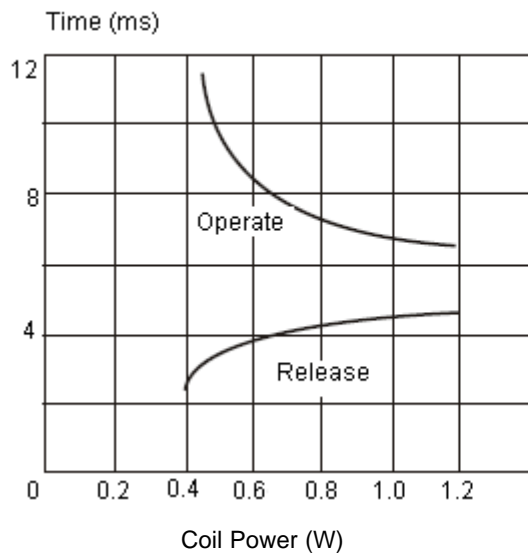
Mounting Hole Layout (Bottom View)



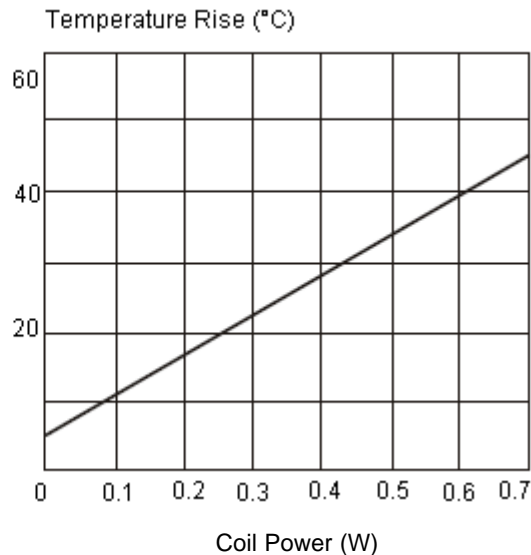
Dimensions : Millimetres

Characteristic Chart Data

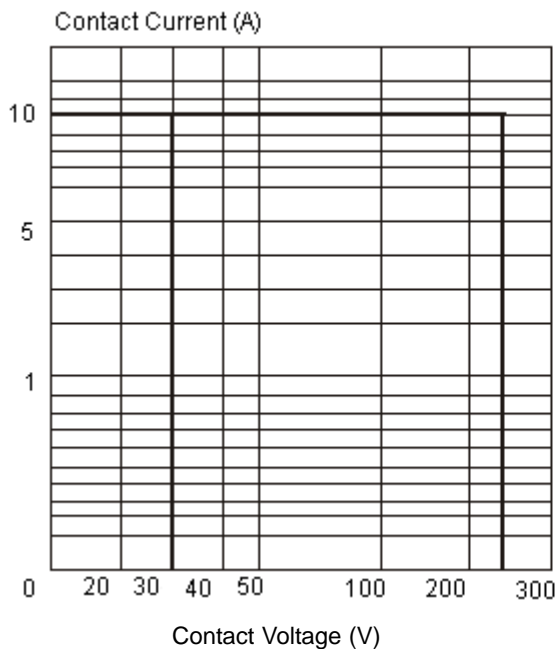
Timing



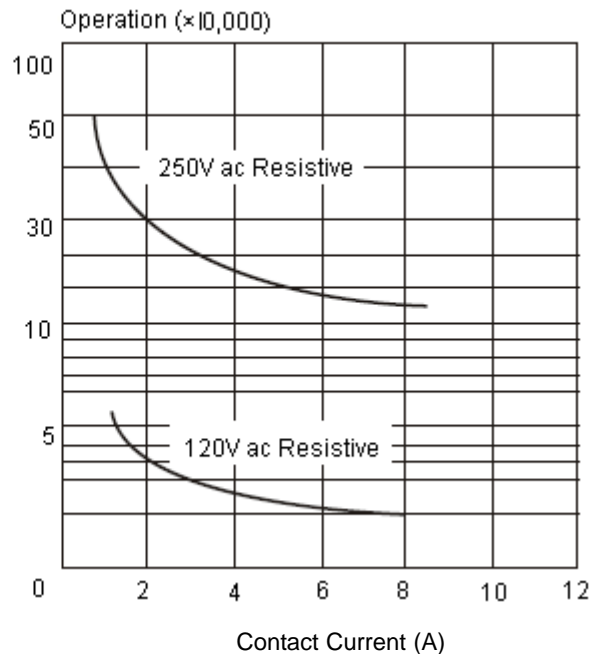
Coil Temperature Rise



Maximum Switching Power



Life Curves



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