



Coil Data

Nominal Voltage : 12, 24V DC
Nominal Power : 200mW, 450mW

Contact Data

Contact Form : 1 form A, 1 form C
Contact Material : AgAlloy.
Contact Rating : 1A: 10A 125V AC, 5A 250V AC / 30V DC (Standard).
1C : NO / NC : 5A / 3A 250V AC / 30V DC (Standard).
Max. Switching Voltage : 250V AC, 300V DC
Max. Switching Current : 10A.
Max. Switching Power : 1,250VA, 150W
Min. Switching Load : 5V DC, 100mA
Max. Contact Resistance : 100mΩ (6V DC 1A)

Life

Electrical : 100,000 operations.
Mechanical : 10,000,000 operations.

General Data

Min. Insulation Resistance : 1,000MΩ 500V DC
Dielectric Strength : 1,000V AC, 1 min between open contacts
A : 3,500V AC, 1 min between coil and contacts
C : 2,500V AC, 1 min between coil and contacts.
Max. Operate Time : 8ms
Max. Release Time : 5ms
Operate Temperature : -40°C to +70°C

Shock Resistance

Endurance : 1,000m/s²
Misoperation : 100m/s²

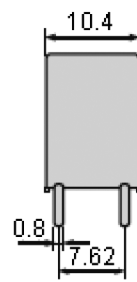
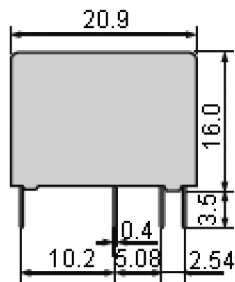
Vibration Resistance

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

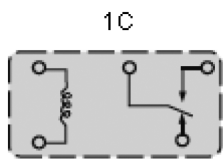
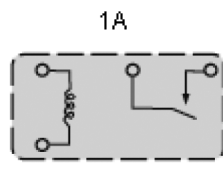
Coil Data Chart 20°C

Nominal Voltage V DC	Coil Resistance $\Omega \pm 10\%$	Operate Voltage $\leq V DC$	Release Voltage $\geq V DC$	Coil Power mW	Part Number
12	320	9	1.2	450	MCHRS3T-S-DC12V-C
					MCHRS3T-S-DC12V-A
24	1280	18	2.4		MCHRS3T-S-DC24V-C
					MCHRS3T-S-DC24V-A

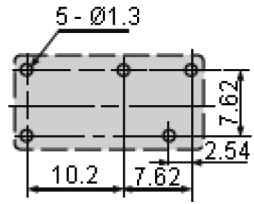
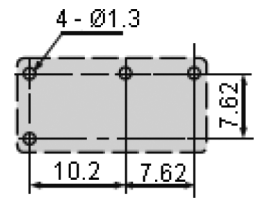
Diagram



Wiring Diagrams



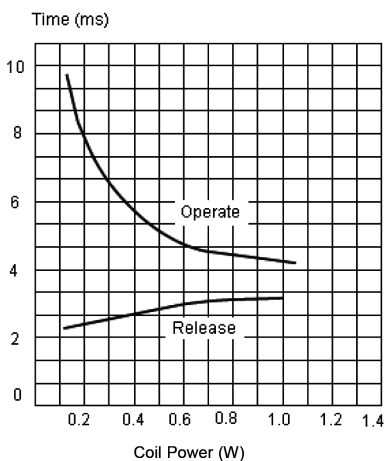
Mounting Hole Layout



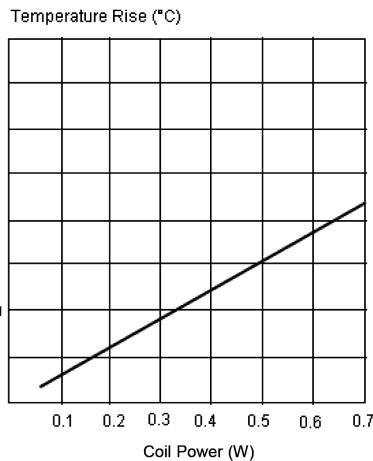
Dimensions : Millimetres

Characteristic Chart Data

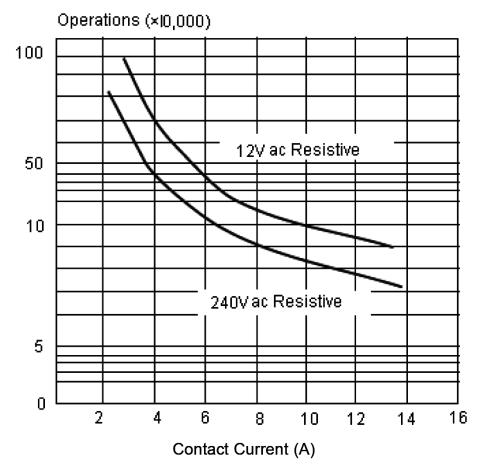
Timing



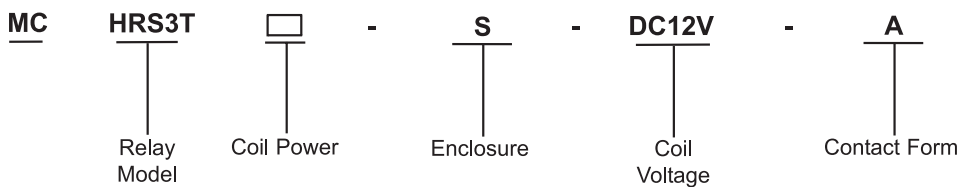
Coil Temperature rise



Life Curves



Part Number Explanation



- Coil Power : Nil = Standard (450mW).
- Enclosure : S = Plastic Sealed Type.
- Coil Voltage : 12 = DC12V and 24 = DC24V.
- Contact Form : A = 1 Form A, C = 1 Form C.

Part Number Table

Description	Part Number
Relay, Power, SPDT, 12V DC Coil	MCHRS3T-S-DC12V-C
Relay, Power, SPST, 12V DC Coil	MCHRS3T-S-DC12V-A
Relay, Power, SPDT, 24V DC Coil	MCHRS3T-S-DC24V-C
Relay, Power, SPST, 24V DC Coil	MCHRS3T-S-DC24V-A

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