



Coil Data

Nominal Voltage	: 12, 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	: 450mW

Contact Data

Contact Form	: 1 form A
Contact Material	: Ag Alloy
Contact Rating	: 1A : 10A 125V AC, 5A 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 3,500V AC, 1 min between coil and contacts.
Max. Operate Time	: 10ms
Max. Release Time	: 5ms.
Operate Temperature	: -30 to +85°C

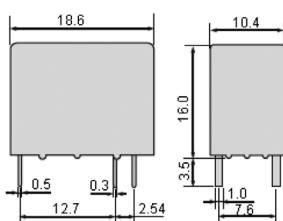
Shock Resistance

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

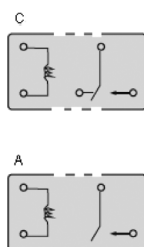
Vibration Resistance

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

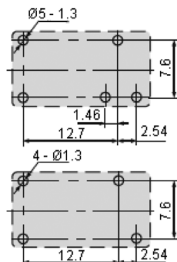
Diagram



Wiring Diagrams



Mounting Hole Layout



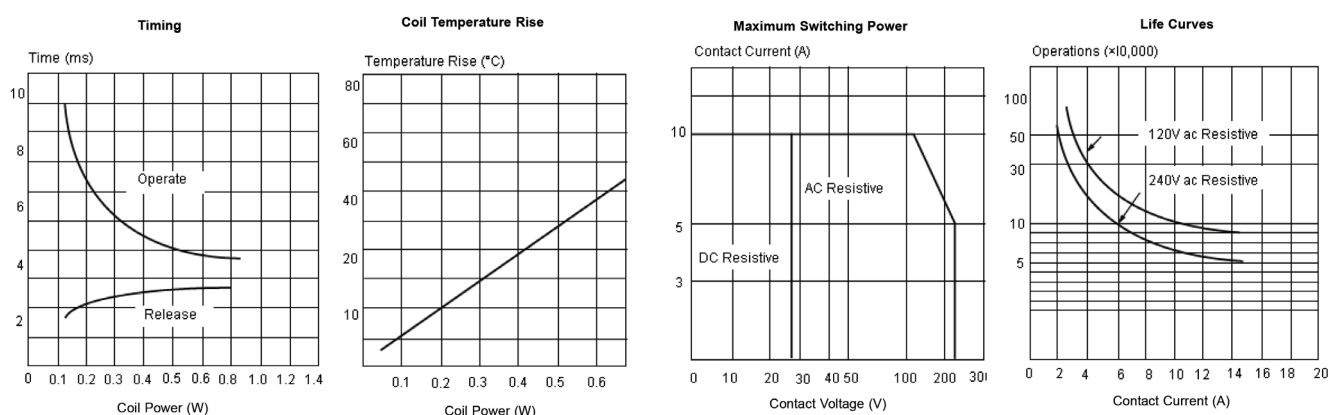
Dimensions : Millimetres

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Element14.com/multicomp-pro

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
		A Type	C Type			
12	320	8.4		1.2	450	MCHRS3-S-DC12V-A
24	1280	16.8		2.4		MCHRS3-S-DC24V-A

Characteristic Chart Data



Part Number Table

Description	Part Number
Relay, Power, SPST, 12V DC Coil, 0.45W	MCHRS3-S-DC12V-A
Relay, Power, SPST, 24V DC Coil, 0.45W	MCHRS3-S-DC24V-A

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