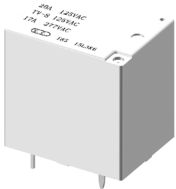


**RoHS  
Compliant**



## Features

- Max. 20A switching capability
- High temperature load: 17A 277V AC at 105°C
- Available for single pin and double pins terminal
- Compliance to standard EN 60335-1
- UL Insulation system: F Class

## Specification

Contact Data		
Contact Form	1 Form A, 1 Form B, 1 Form C	
Contact Material	Ag Alloy	
Contact Rating	1 Form A: 20A 125VAC 17A 277V AC 20A 277V AC TV-8 125V AC 1 Form C NO : 17A 277V AC NC:7A 277V AC	
Contact Resistance	Max. 100mΩ (1A 24V DC)	
Load	Max. Switching Voltage	400V AC/28V DC
	Max. Switching Current	20A(A), 17A(C)
	Max. Switching Power	4700VA
Life	Electrical	1 Form A: 100,000 operations 1 Form C: 50,000 operations
	Mechanical	10,000,000 operations
Coil Data		
Nominal Coil Power	360mW	
General Data		
Insulation Resistance	Min. 1000MΩ 500V DC	
Dielectric Strength	Between open contacts	1000V AC, 50/60Hz, 1 min
	Between coil and contacts	2500V AC, 50/60Hz, 1 min
Operate Time	Max. 10ms	
Release Time	Max. 5ms	
Operating Temperature	-40°C to +85°C (Single pin) -40°C to +105°C (Double pin)	
Humidity	5 to 90%RH	
Shock Resistanc	Endurance	1,000m/s <sup>2</sup> (10g)
	Misoperation	100m/s <sup>2</sup> (100g)
Vibration Resistance	Endurance	10 to 55Hz, 1.5mm double amplitude
	Misoperation	10 to 55Hz, 1.5mm double amplitude
Weight	Approximately 14g	

Note: Data shown are of initial value

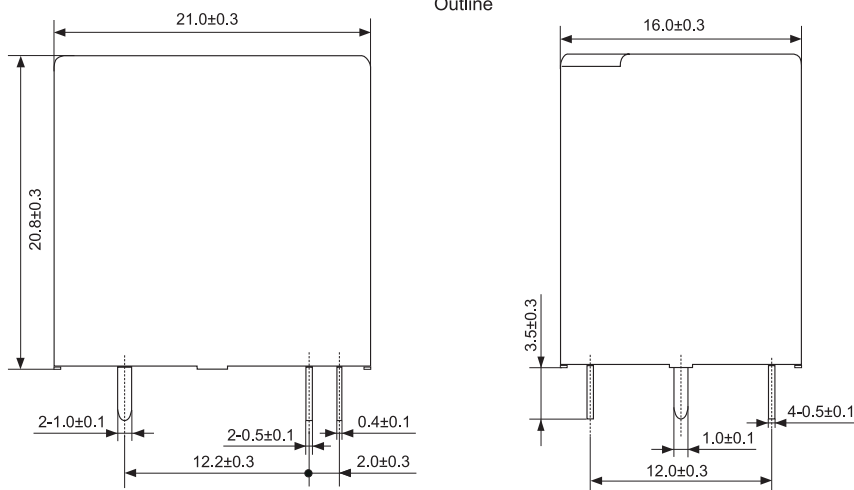
Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

## Coil Data

Model	Nominal Voltage V DC	Coil Resistance $\Omega$ +/-10%	Operate Voltage $\leq$ V DC	Release Voltage $\geq$ VDC	Max. Allowable Voltage $\geq$ VDC	Coil Power mW
MPHRS4NH-S-DC5V-A1	5	70	3.75	0.5	6.5	360
MPHRS4NH-S-DC24V-A1	24	1600	18	2.4	31.2	
MPHRS4NH-S-DC5V-C1	5	70	3.75	0.5	6.5	
MPHRS4NH-S-DC24V-C1	24	1600	18	2.4	31.2	

## Outline, Wiring Diagram, Mounting Hole Layout

Single pin version



## Part Number Table

Description	Part Number
Power Relay, PCB Type, NO, 0.36W, 20 Amp, 5V DC	MPHRS4NH-S-DC5V-A1
Power Relay, PCB Type, NO, 0.36W, 20 Amp, 24V DC	MPHRS4NH-S-DC24V-A1
Power Relay, PCB Type, NO/NC, 0.36W, 20/10Amp, 5V DC	MPHRS4NH-S-DC5V-C1
Power Relay, PCB Type, NO/NC, 0.36W, 20/10Amp, 24V DC	MPHRS4NH-S-DC24V-C1

Dimensions : Millimetres

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.