

# HRM1 Series

## PCB Power Relays

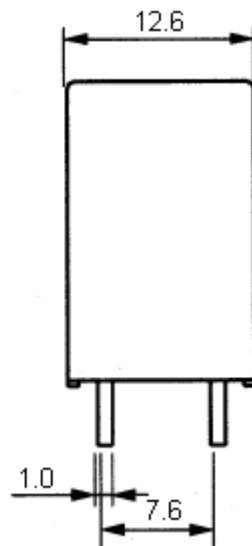
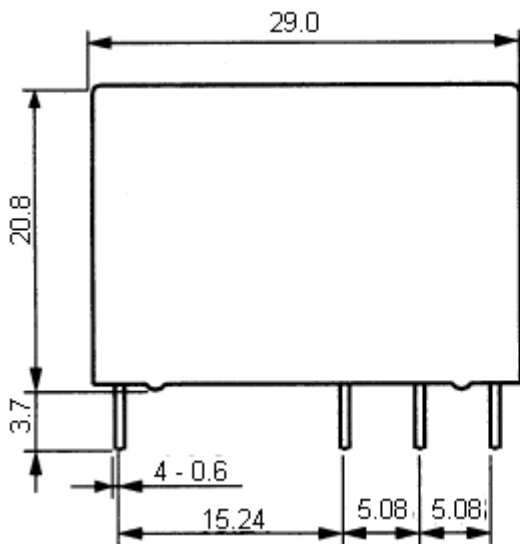


### 5A Vertical



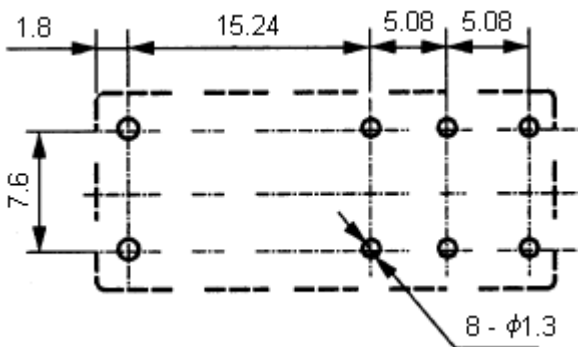
### Features:

- Sealed to allow washing after flow soldering.
- DPCO contacts.
- Miniature power relay.
- Coil voltages 3 - 48V dc.
- Insulation distance 8mm.



Dimensions : Millimetres

### PCB Drilling



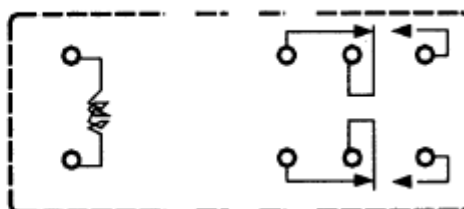
Dimensions : Millimetres

### Terminal Arrangement

2 Form A



2 Form C



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### Technical Data:

#### Contact Data:

Contact arrangement	: 2 Form A, 2 Form C.
Contact material	: AgCdO.
Contact rating	: 5A 250V ac/24V dc.
Contact rating	: 2A 250V ac $\text{Cos}\phi = 0.4$ .
Inductive load	: 2A 24V dc L/R = 7ms.
Maximum switching voltage	: 150V dc/250V ac.
Maximum switching current	: 5A.
Maximum switching power	: 1250VA, 120W.
Resistance (Initial)	: 100m $\Omega$ at 6V dc, 1A.
Electrical life at nominal load	: 100,000 operations TV-5 120V ac-20,000 at $\text{Cos}\phi = 0.4$ , L/R = 7ms.
Mechanical life	: 10,000,000 operations.

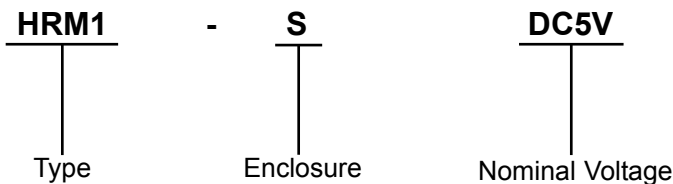
#### General Data:

Minimum insulation resistance	: 100M $\Omega$ at 500V dc.
Dielectric strength	: 1000V ac. 1 minute between open contacts. 5000V ac. 1 minute between contacts and coil.
Maximum operate time	: 15ms.
Maximum release time	: 8ms.
Temperature range	: -30 to +55°C (720mW).
Shock resistance	: 10G.
Vibration resistance	: 10 - 55Hz, Amplitude 1.5mm.

### Coil Data Chart (at 20°C)

Nominal Coil Voltage (V dc)	Coil Resistance ( $\Omega \pm 10\%$ )	Operating Voltage (V dc)	Release Voltage (V dc)	Coil Power Consumption (mW)	Part Number
5	36	4.00	0.25	720	HRM1-S DC5V
9	115	7.20	0.45		HRM1-S DC9V
12	200	9.60	0.60		HRM1-S DC12V
24	820	19.20	1.20		HRM1-S DC24V

### Part Number Explanation



<b>Enclosure</b>	: S = Washable.
<b>Nominal Voltage</b>	: DC5V = 5V, DC9V = 9V, DC12V = 12V and DC24V = 24V.



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### Notes:

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