



HANDOUK

HU1

■ FEATURES

- * 5A (10A) switching capabilities
- * 10kV impulse withstand voltage (Between coil and contacts)
- * Highly efficient magnetic circuit for high sensitivity : 0.2W
- * Extremely small footprint utilizing PCB area



■ CONTACT DATA

Model		HU1 (Standard : 5A)	HU1G (High capacity: 7A)
Contact Form		1 Form A	
Contact Material		AgSnO2, AgNi	
Contact rating		5A 250VAC / 5A 28VDC	7A 250VAC / 7A 28VDC
Max. Switching current		7A	10A
Max. Switching Voltage		277VAC / 30VDC	
Max. Switching Power		1,939VA / 210W	2,770VA / 300W
Contact resistance		100mΩ at 6VDC 1A	
Electrical	AgNi	2 x 10 ⁵ ops (at 3A 250VAC)	1 x 10 ⁵ ops (at 3A 250VAC)
		1 x 10 ⁵ ops (at 5A 250VAC)	1 x 10 ⁴ ops (at 5A 250VAC)
Life	AgSnO ₂	1 x 10 ⁵ ops (at 3A 250VAC)	5 x 10 ⁴ ops (at 3A 250VAC)
		5 x 10 ⁴ ops (at 5A 250VAC)	1 x 10 ⁴ ops (at 5A 250VAC)
Mechanical Life		5,000,000 operations	

■ GENERAL DATA

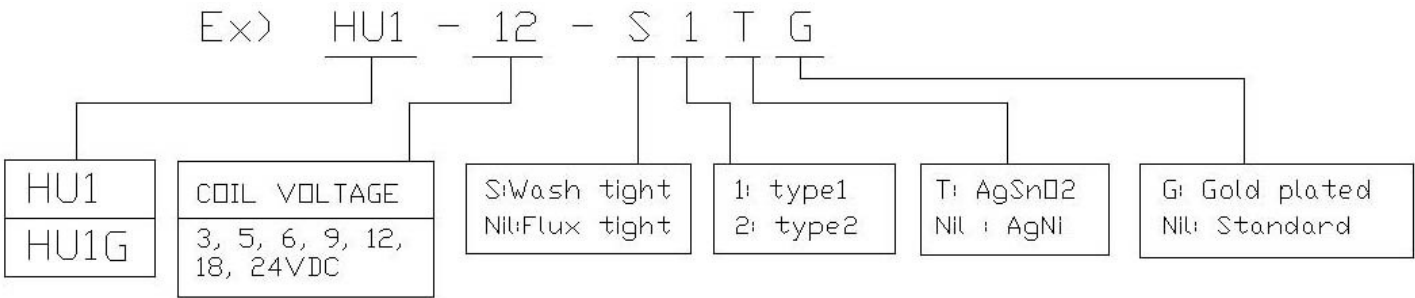
Insulation Resistance		1000M Ω Min. at 500VDC
Dielectric Strength	Open Contacts	1,000VAC (For one minute)
	Contacts and Coil	4,000VAC (For one minute)
Operate Time		10ms
Release Time		10ms
Surge Voltage between contact and coil		10KV (1.5 x 50 micro sec.)
Temperature Range		-40°C ~ 85°C
Shock Resistance	Functional	98m/s ²
	Damage Limit	980m/s ²
Vibration Resistance		10 ~ 55Hz 1.5mm DA
Humidity		98%, +40°C

Dimension	29 x 12.7 x 15.7mm
Weight	Approx. 3g
UL, cUL	E197546
Power consumption (Coil)	0.2W

■ COIL DATA

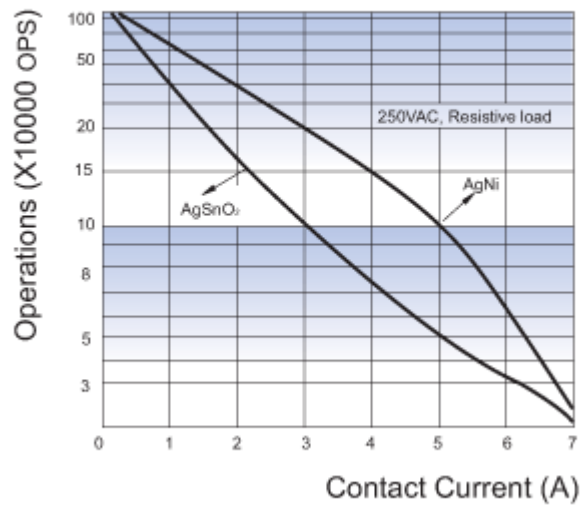
Nominal Voltage (VDC)	Pick-up Voltage VDC	Drop-out Voltage VDC	Max allowable Voltage	Coil Resistance at 20±10%(Ω)
3	2.25	0.18	3.9	45
5	3.75	0.25	6.5	125
6	4.5	0.3	7.8	180
9	6.75	0.45	11.7	405
12	9	0.6	15.6	720
18	13.5	0.9	23.4	1,620
24	18	1.2	31.2	2,880

■ ORDERING INFORMATION



■ CHARACTERISTIC CURVERS

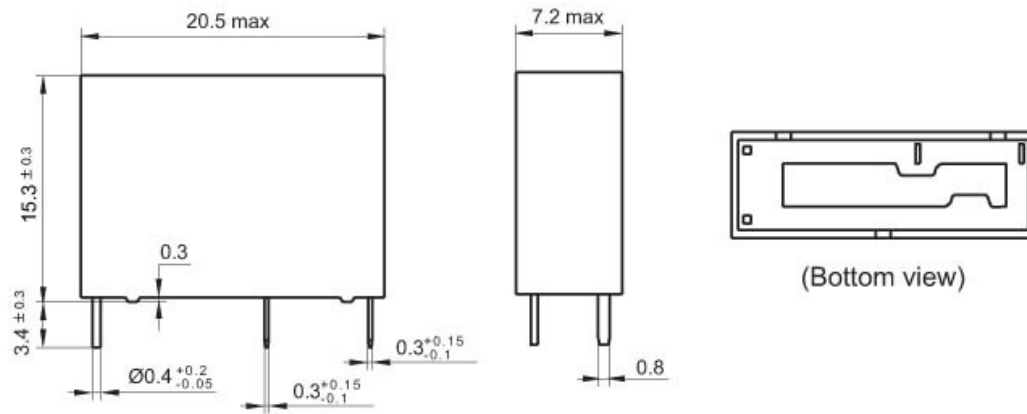
ENDURANCE CURVE



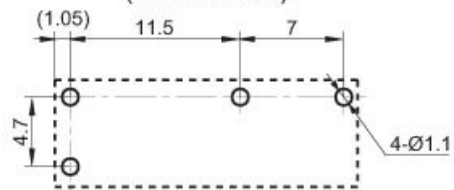
■ OVERALL AND MOUNTING DIMENSIONS

Type 1

Outline Dimensions



PCB Layout (Bottom view)

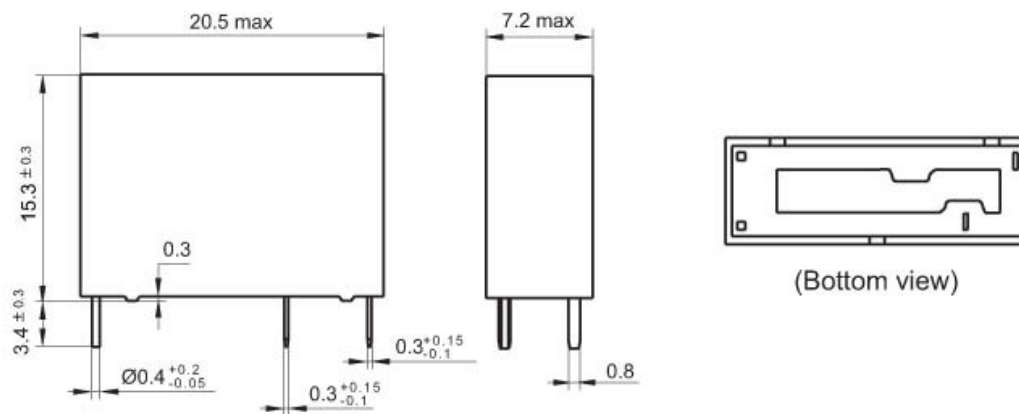


Wiring Diagram (Bottom view)

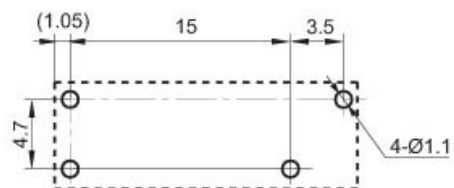


Type 2

Outline Dimensions



PCB Layout (Bottom view)



Wiring Diagram (Bottom view)

