

## Miniature PCB / QC Heavy Duty Power Relay

# HG4138L



### FEATURES

- Improved HG4138 relay by magnetic arc blowout
- Up to 45A switching capacity
- PCB + QC termination

### TYPICAL APPLICATIONS

- Power supply device
- Industrial control
- Medical equipment

### CONTACT RATING

Form	1 Form A (1H)	1 Form B (1D)	1 Form C (1Z)	
			NO	NC
Resistive	45A, 240VAC 45A, 28VDC	15A, 240VAC 15A, 28VDC	30A, 240VAC 30A, 28VDC	15A, 240VAC 15A, 28VDC

### UL/CSA RATING

Load Type	Voltage	1 Form A (1H)	1 Form B (1D)	1 Form C (1Z)	
				NO	NC
General Purpose	240VAC	45A	20A	30A	15A
Resistive	240VAC	45A	20A	30A	15A
	28VDC	30A	15A	30A	15A
Motor	240VAC	3HP	0.75HP	2HP	0.75HP
	120VAC	1.5HP	0.375HP	1.5HP	0.375HP
LRA/FLA	240VAC	120A/45A	45A/15A	75A/30A	30A/10.5A
	120VAC	147A/33A			
Tungsten	120VAC	TV8	TV4	TV8	TV4
Ballast	277VAC	15A	4.5A	15A	4.5A
Pilot Lamp	125 - 250VAC	700VA			

### CONTACT DATA

Material	AgCdO, AgSnInO	
Initial Contact Resistance	50 mΩ, max. at 0.1A, 6VDC	
Service Life	Mechanical	10 <sup>7</sup> ops.
	Electrical	1.5 x 10 <sup>4</sup> ops.

### COIL DATA

Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω) ±10%	Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)
005	5	27	3.75	0.5
006	6	40	4.50	0.6
009	9	97	6.75	0.9
012	12	155	9.00	1.2
024	24	660	18.00	2.4
048	48	2560	36.00	4.8
110	110	10330	82.50	11.0

### CHARACTERISTICS

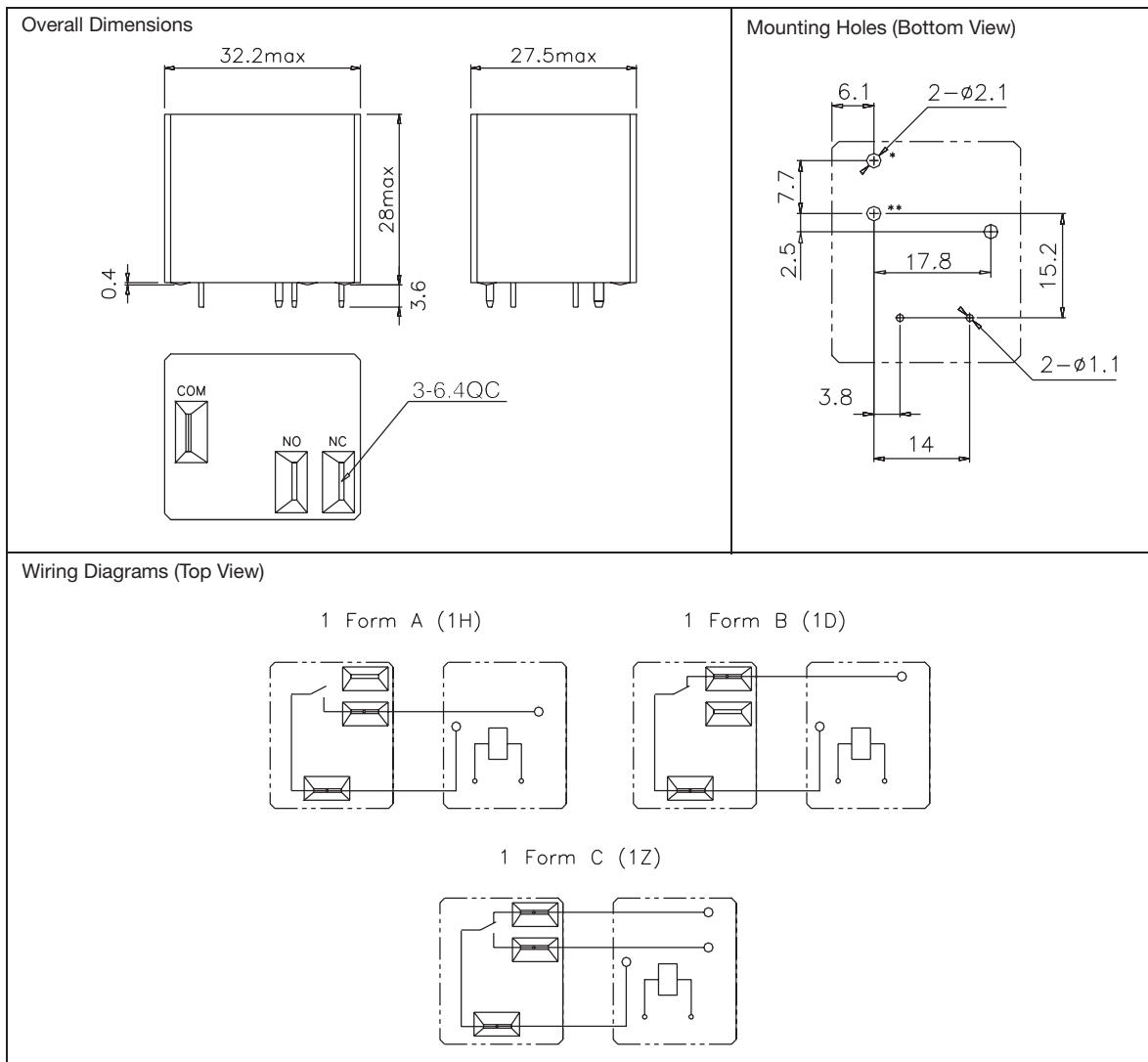
Operate Time	15 ms. typical
Release Time	10 ms. typical
Insulation Resistance	1000 MΩ, at 500VDC, 50%RH
Dielectric Strength	1500 Vrms, 1 min. between open contacts 1500 Vrms, 1 min. between coil and contacts
Shock Resistance	10 g, 11ms, functional; 100 g, destructive
Vibration Resistance	DA 1.5mm, 10 - 55 Hz,
Power Consumption	1W, approx.
Ambient Temperature	-55°C to 85°C operating
Weight	32 g, approx.

# HG4138L

## ORDERING DESIGNATION

Example:	HG4138L /	012 -	1Z	0	1	F
Model						
Coil Voltage Code						
Contact Form						
1H: 1 Form A; 1D: 1 Form B; 1Z: 1 Form C						
Mounting Version						
0: PCB						
Version						
1: Sealed; 2: Dust Cover						
Thermal Class						
Nil: UL Class B; F: UL Class F						

## OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



## NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. In mounting holes drawing the \* holes is not needed for 1 Form A, the \*\* hole is not needed for 1 Form B.
3. To exert optimum electrical life, please remove the tape of sealed version after cleaning process.
4. Custom-made services available with operational quantity. Please let us know your special requirements.
5. Specifications subject to change without prior notice.