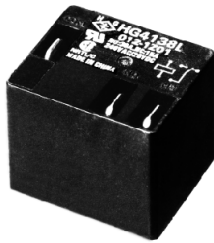


Miniature PCB / QC Heavy Duty Power Relay

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 28VDC	45A 30A	20A 15A	30A 30A	15A 15A
Motor	240VAC 120VAC	3HP 1.5HP	0.75HP 0.375HP	2HP 1.5HP	0.75HP 0.375HP
LRA/FLA	240VAC 120VAC	120A/45A 147A/33A	45A/15A	75A/30A	30A/10.5A
Tungsten	120VAC	TV8	TV4	TV8	TV4
Ballast	277VAC	15A	4.5A	15A	4.5A
Pilot Lamp	125 - 250VAC	700VA			

CONTACT DATA

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

COIL DATA

Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω)±10%	Power Consumption	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
005	5	27	0.9W	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	2,560		36.00	4.8
110	110	10,330		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.

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)

Overall Dimensions	Mounting Holes (Bottom View)
Wiring Diagrams (Top View) 1 Form A (1H) 1 Form B (1D) 1 Form C (1Z)	

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.

T Y H Enterprise Limited
Room 1620B, Nan Fung Centre
264-298 Castle Peak Road
Tsuen Wan, N.T.
Hong Kong

Tel: 852-2416-0132
Fax: 852-2413-6229
<http://www.tyhhk.com>
email: info@tyhhk.com

Plant: Shanghai Hi-Gradex Relay Mfg. Co., Ltd
918 Shixin Road
Airport Town
Pudong New Area
Shanghai 201202
China

Tel: 86-21-6299-5619 / -5877
Fax: 86-21-6299-5619
email: tyhesh@online.sh.cn