

FEATURES

- Improved version to HG4115/4138 series
- Up to 30A switching capacity
- DC coil and AC coil version available
- Meets UL873/508 spacing

TYPICAL APPLICATIONS

- Industrial control
- Commercial applications
- Home appliances

CONTACT RATING

Form	1 Form A (H)	1 Form B (D)	1 Form C (Z)	
			NO	NC
Resistive	30A, 277V AC 30A, 30VDC	15A, 277V AC 10A, 30VDC	20A, 277V AC 20A, 30VDC	10A, 277V AC 10A, 30VDC
UL General Purpose	30A, 240V AC	15A, 240V AC	20A, 240V AC	15A, 240V AC
Resistive Heater	25A, 240V AC	10A, 240V AC	15A, 240V AC	7.5A, 240V AC

UL /CSA RATING (PENDING)

Load Type	Voltage	1 Form A (H)	1 Form B (D)	1 Form C (Z)	
				NO	NC
General Purpose	240VAC 277VAC	30A 30A	15A 30A	20A 30A	15A 30A
Resistive	277VAC 30VDC	30A 20A	20A 20A	20A 20A	15A 10A
Motor	277VAC 240VAC 125VAC	0.75HP 2HP 1HP	1HP 0.25HP	0.75HP 2HP 1HP	1HP 0.25HP
LRA /FLA	240VAC 125VAC	80A /30A 98A /22A	30A /12A	50A /20A	20A /9A
Tungsten	277VAC 120VAC	5.4A 8.3A		3.6A 5.6A	
Ballast	277VAC	10A	3A	6.7A	2A
Pilot Duty	120VAC	470VA		315VA	

CONTACT DATA

Material	AgCdO, AgSnOInO	
Initial Contact Resistance	50 mΩ, max. at 0.1A, 6VDC	
Service Life	Mechanical	10 <sup>7</sup> ops.
	Electrical	10 <sup>5</sup> ops.

CHARACTERISTICS

Operate Time	15 ms. max.
Release Time	15 ms. max.
Insulation Resistance	1000 MΩ, at 500 VDC, 50%RH
Dielectric Strength	1500 V rms, 1 min. between open contacts 2500 V rms, 1 min. between coil and contacts for DC coil 1500 V rms, 1 min. between coil and contacts for AC coil
Shock Resistance	20 g, 11ms.
Vibration Resistance	DA 1.5mm, 20 - 200 Hz
Power Consumption	DC Standard: 1W ; DC Sensitive: 0.9W ; AC: 2V A, appr ox.
Ambient Temperature	-55°C to 85°C operating; -55°C to 130°C storage
Weight	Open: 20 g; Covered: 25 g, approx.

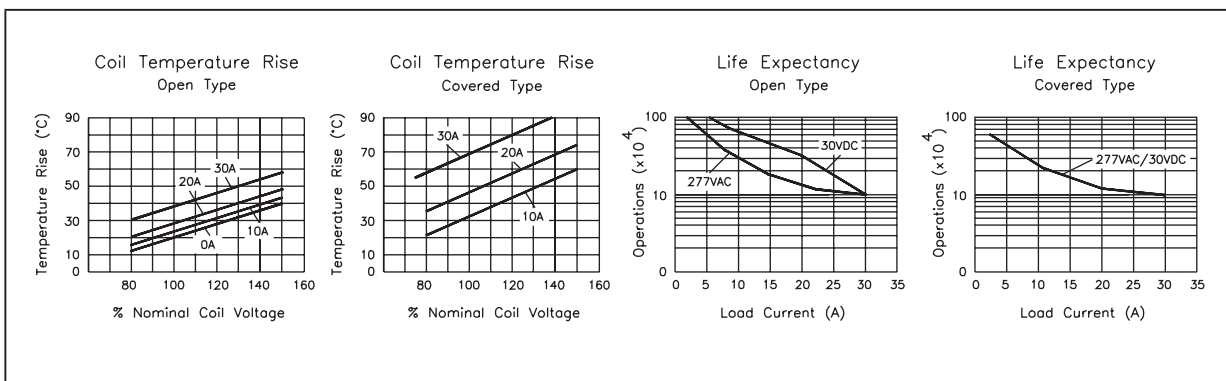
## COIL DATA

Type	Coil Voltage Code	Nominal Voltage (VDC/VAC)	Resistance ( $\Omega$ ) $\pm 10\%$		Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)
			Standard	Sensitive		
DC	005	5	25	27	3.75	0.5
	006	6	36	40	4.5	0.6
	009	9	81	97	6.75	0.9
	012	12	144	155	9.0	1.2
	015	15	225	256	11.25	1.5
	018	18	324	380	13.5	1.8
	022	22	484	545	16.5	2.2
	024	24	576	660	18.0	2.4
	048	48	2304	2560	36.0	4.8
AC	110	110	12100	13450	82.5	11.0
	012A	12	26		10.2	1.8
	024A	24	106		20.4	3.6
	110A	110	2750		93.5	16.0
	220A	220	11000		187.0	33.0

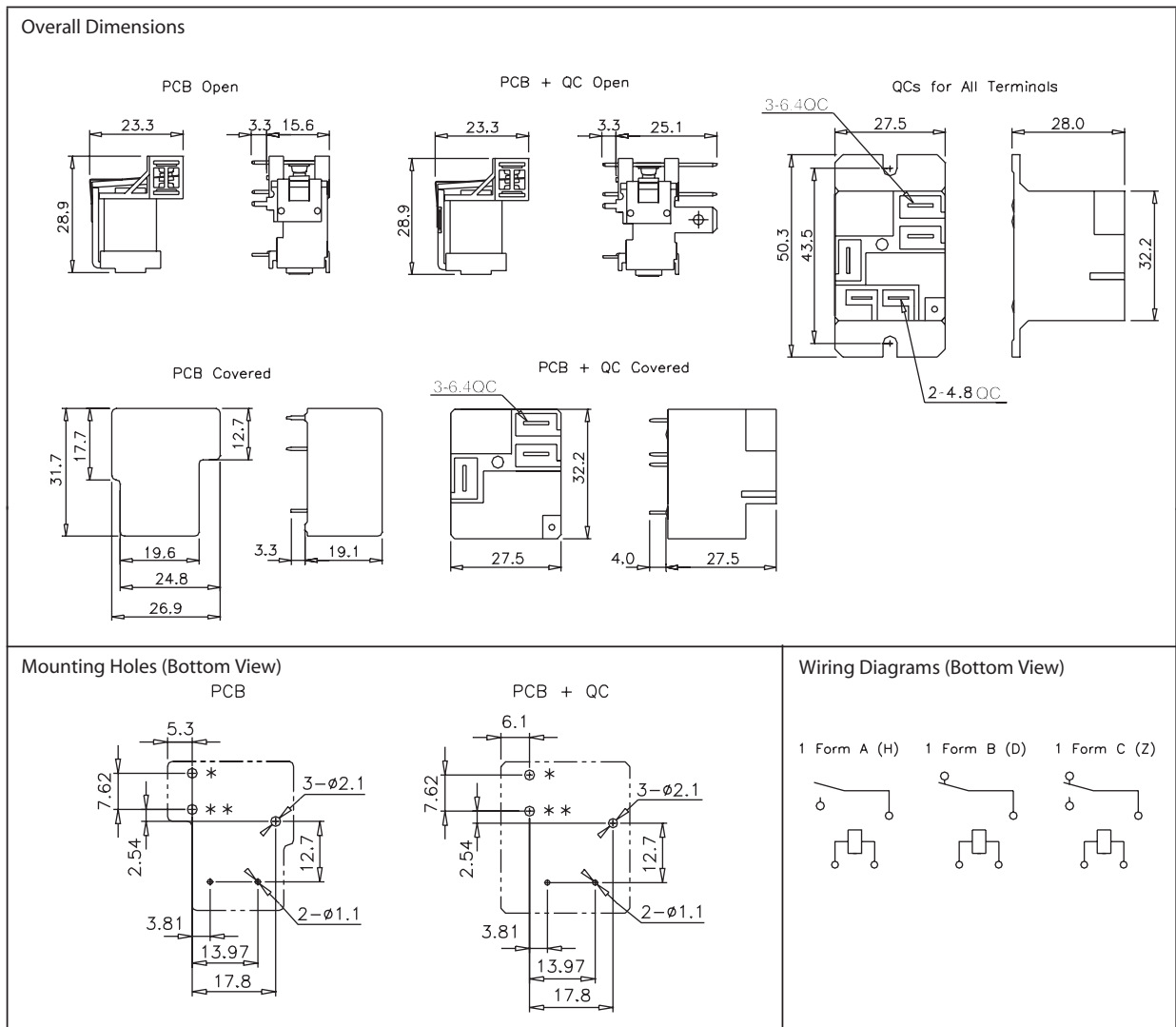
## ORDERING DESIGNATION

Example:	HG4234 /	012	A -	Z	1	S	A	L	F	-P
Model										
Coil Voltage Code										
DC / AC										
Nil: DC Coil; A: AC Coil										
Contact Form										
H: 1 Form A; D: 1 Form B; Z: 1 Form C										
Version										
Nil: Open; 1: Sealed; 2: Dust Cover										
Contact Material										
C: AgCdO; S: AgSnO <sub>2</sub>										
Mounting & Termination Code										
A: PCB B: PCB+QCs for Contacts C: QCs for All Terminals										
DC Coil Sensitivity										
Nil: Standard, 1W L: Sensitive, HG4115/4138 Compatible, 0.9W										
Thermal Class										
Nil: UL Class B; F: UL Class F										
P: RoHS Compliant (Lead-free) - Not available with AgCdO contact material										

## REFERENCE CURVES



## 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 \* hole 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 tab/knock-off 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.

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