


特性

- 通用微型继电器
- 高触点容量：12A触点切换能力
- 全自动化生产，制造成本低
- 标准印刷板引出脚
- 外形尺寸：(18.8×15.2×15.7)mm

触点参数

触点形式	1A,1B or 1C
接触电阻	≤100mΩ(1A 6VDC)
触点材料	银合金
触点负载(阻性)	7A/10A/12A 250VAC;5A/7A/10A 30VDC
最大切换额定电压	277VAC/30VDC
最大切换额定电流	12A
最大切换额定功率	2770VA
机械耐久性	10,000,000次
电耐久性(阻性)	100,000次 (3s通3s断)

性能参数

绝缘电阻	100MΩ(500VDC)	
介质耐压	线圈与触点间	1500VAC 1min
	断开触点间	750VAC 1min
动作时间(额定电压下)	≤10ms	
释放时间(额定电压下)	≤5ms	
抗振动	稳定性	10Hz~55Hz 1.5mm
	强度	10Hz~55Hz 1.5mm
抗冲击	稳定性	10G Min
	强度	100G Min
湿度	5%~85%Rh	
温度范围	-40℃~105℃	
引出端形式	PCB	
重量	约7.5g	

线圈规格表

温度：23℃

额定电压 (VDC)	额定电流 ±%(mA)	线圈电阻 ±10%(Ω)	最大连续外加电压	吸合电压 (Max)	释放电压 (Min)	线圈额定功率 (W)
3	120	25	额定电压的130%	额定电压的75%	额定电压的10%	0.36
5	72	70				
6	60	100				
9	40	225				
12	30	400				
18	20	900				
24	15	1600				
48	7.5	6400				
3	150	20	额定电压的130%	额定电压的75%	额定电压的10%	0.45
5	90	55.6				
6	75	80				
9	50	180				
12	37.5	320				
18	25	720				
24	18.75	1280				
48	9.4	5120				
3	267	11.25	额定电压的130%	额定电压的75%	额定电压的10%	0.8
5	160	31.25				
6	133	45				
9	89	101.25				
12	67	180				
18	44	405				
24	33	720				
48	17	2880				

安规认证

认证类别	CQC	TUV	UL		VDE
证书号	CQC14002105590	R 50158866	E321783		40045697
负载要求	10A 250VAC	7A 250VAC 10A 250VAC 12A/125VAC/250VAC cos phi=1(A型) 10A 277VAC cos phi=1(A型)	1 Form A	15A 125VAC 10A 277VAC 1/3HP 277VAC TV-5 120VAC	10A 250VAC(A型) 7A 250VAC(C型) 10A 250VAC(C型)
	7A 250VAC		1 Form C (NO,NC)	12A 125VAC 10A 277VAC 1/3HP 277VAC TV-5 120VAC	

GH 命名规则

GH -1A -12 L C F G XXX

特殊说明：无--标准型；字母或数字-特殊说明
T--满足IEC60335灼热丝标准
E--代表经济型

触点间隙(GAP)：无--常规型，G--表示GAP≥1.0mm(适用于0.8W)

绝缘等级：无--Class B；F--Class F

密封方式：无--塑封防尘型；C--全密封型；S--防爆型

线圈功率：L--0.36W；D--0.45W；H--0.8W

线圈额定电压 (VDC)：3, 5, 6, 9, 12, 18, 24, 36, 48

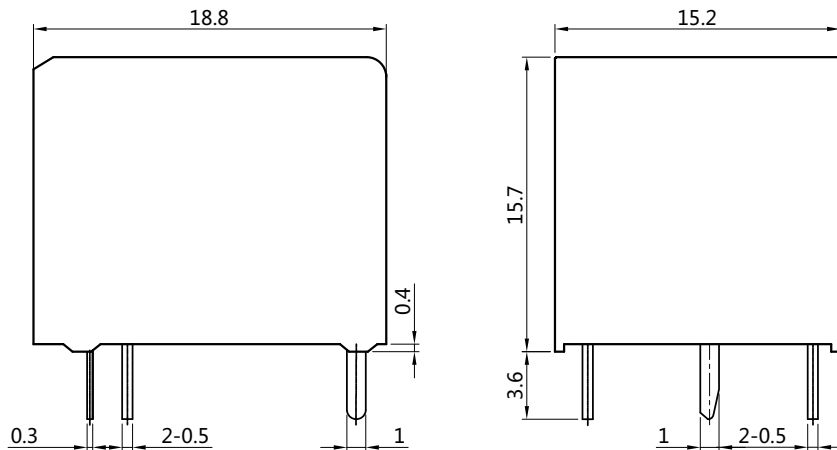
触点形式：1A--常开型；1B--常闭型；1C--转换型

型号：GH

外形图、接线图

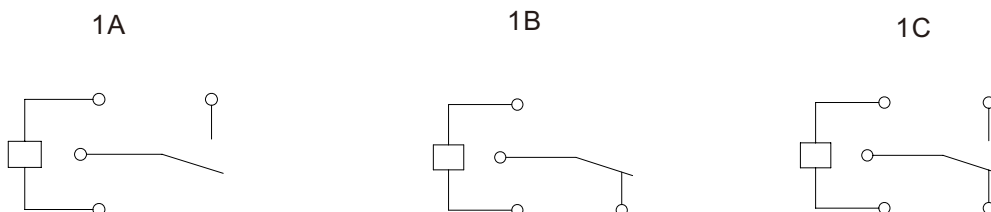
单位:mm

外形图



注：产品部分外形尺寸未注尺寸公差，当外形尺寸 < 1mm，公差为±0.2mm；
当外形尺寸在1~5mm之间时，公差为±0.3mm；当外形尺寸 > 5mm，公差为±0.4mm。

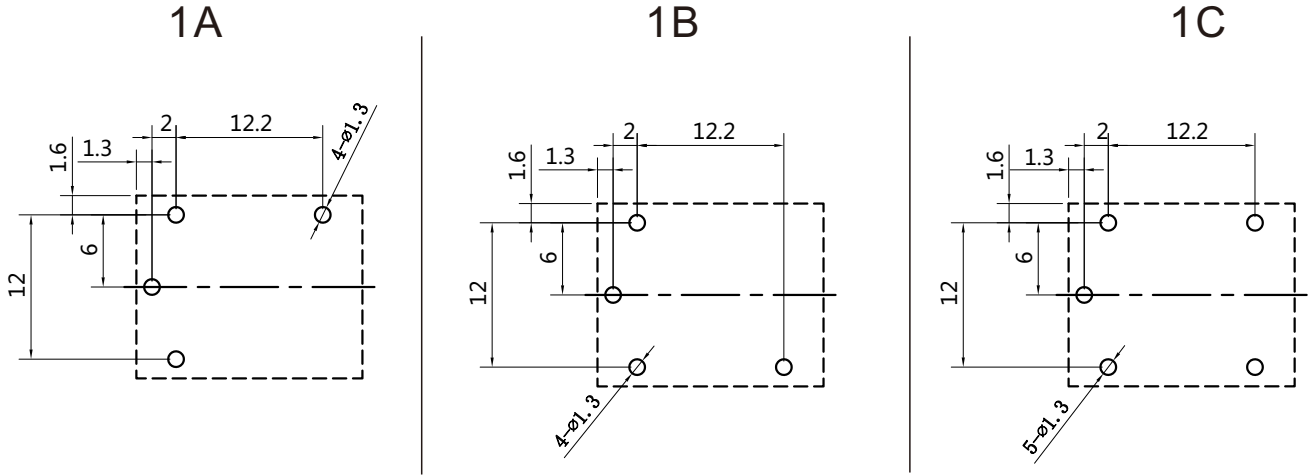
接线图(底视图)



安装孔尺寸

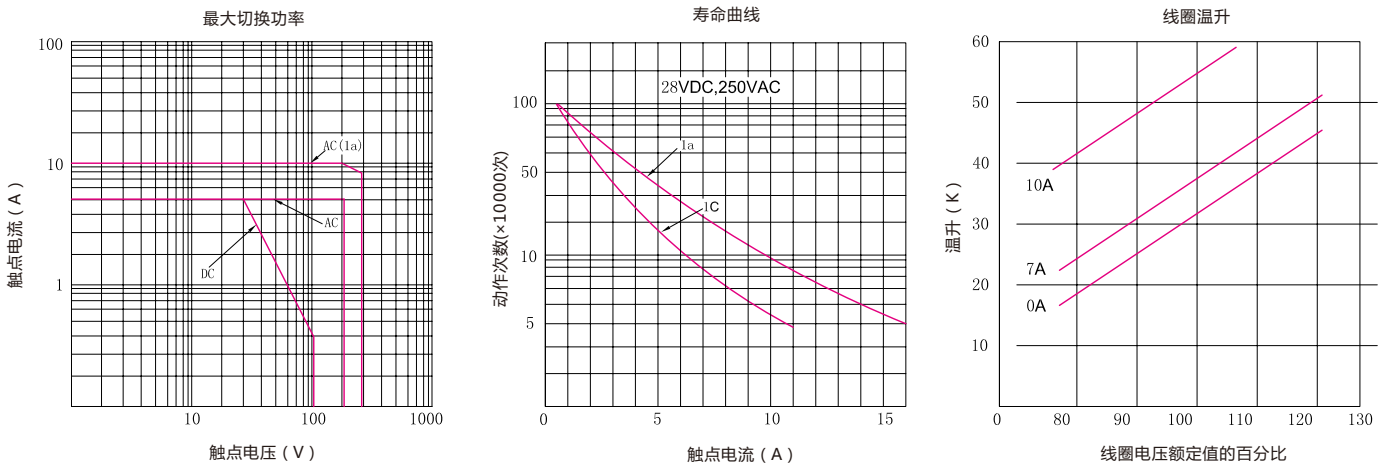
单位:mm

安装孔尺寸图(底视图)



注：引出端子尺寸为预焊前尺寸；安装孔尺寸公差：±0.1mm。

性能曲线图



声明:

本产品规格书仅供客户使用时参考,若有更改,恕不另行通知。

对高登而言,不可能评定继电器在每个具体应用领域的性能参数要求,因而客户应该根据具体的使用条件选择与之相配的产品,若有疑问,请与高登联系获取更多的技术支持,但是产品选型责任由客户负责。

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Characteristics

- General purpose micro relay
- High contact capacity: 12A contact switching capability
- Fully automated production with low manufacturing costs
- Standard printed board leads
- Sizes: (18.8 × 15.2 × 15.7) mm

Contact parameter

Contact form	1A,1B or 1C
Contact resistance	≤100mΩ(1A 6VDC)
Contact material	Silver alloy
Contact load (Resistance)	7A/10A/12A 250VAC;5A/7A/10A 30VDC
Max. Switching Voltage	277VAC/30VDC
Max. Switching Current	12A
Max. Switching Power	2770VA
Mechanical Life	10,000,000 ops.
Electrical Life (Resistive)	100,000 ops. (3s on 3s off)

Performance parameter

Insulation resistance		100MΩ(500VDC)
Dielectric Strength	Between coil & contacts	1500VAC 1min
	Between open contacts	750VAC 1min
Operating time (at rated voltage)		≤10ms
Release time (at rated voltage)		≤5ms
Vibration resistant	Malfunction	10Hz~55Hz 1.5mm
	Durability	10Hz~55Hz 1.5mm
Impact resistance	Malfunction	10G Min
	Durability	100G Min
Humidity		5%~85%Rh
Operating Condition		-40°C~105°C
Terminal Type		PCB
weight		About 7.5g

Coil parameter						Temperature: 23°C
Nominal Voltage (VDC)	Rated current ±%(mA)	Coil resistance ±10%(Ω)	Maximum continuous applied voltage	Pull-in voltage (Max)	Release voltage (Min)	Coil rated power (W)
3	120	25	130% of rated voltage	75% of rated voltage	10% of rated voltage	0.36
5	72	70				
6	60	100				
9	40	225				
12	30	400				
18	20	900				
24	15	1600				
48	7.5	6400				
3	150	20	130% of rated voltage	75% of rated voltage	10% of rated voltage	0.45
5	90	55.6				
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24	33	720				
48	17	2880				

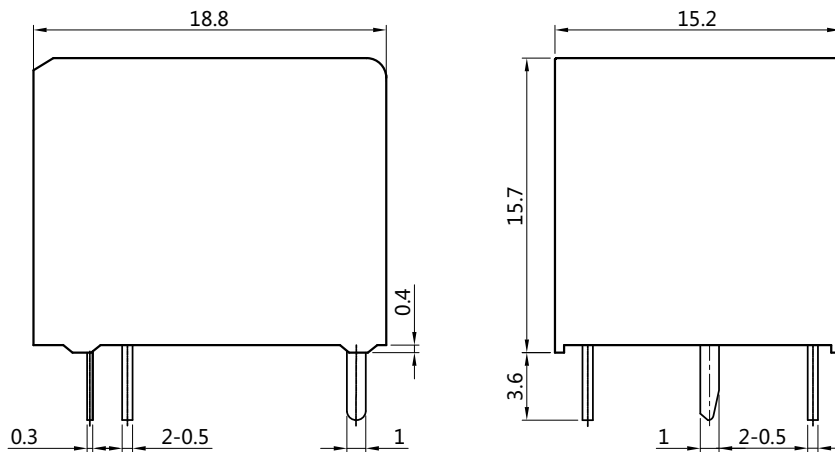
Safety certification					
Certification category	CQC	TUV	UL		VDE
Certificate No	CQC14002105590	R 50158866	E321783		40045697
Load requirement	10A 250VAC	7A 250VAC 10A 250VAC 12A/125VAC/250VAC cos phi=1(A型) 10A 277VAC cos phi=1(A型)	1 Form A	15A 125VAC 10A 277VAC 1/3HP 277VAC TV-5 120VAC	10A 250VAC(A型) 7A 250VAC(C型) 10A 250VAC(C型)
	7A 250VAC		1 Form C (NO,NC)	12A 125VAC 10A 277VAC 1/3HP 277VAC TV-5 120VAC	

GH Naming rules

GH	-1A	-12	L	C	F	G	XXX
Special instructions: none-standard type; letters or numbers-special instructions T--Meet the IEC60335 glow-wire standard E-stands for economical							
Contact Gap : Blank--standard gap ;G--gap=1.0mm (for 0.8W)							
Insulation class: Blank--Class B; F--Class F							
Sealing method: Blank--plastic sealed dustproof type; C--fully sealed type; S--water burst type							
Rated coil power : L--0.36W ; D--0.45W ; H--0.8W							
Rated coil voltage (VDC) : 3 , 5 , 6 , 9 , 12 , 18 , 24 , 36 , 48							
Contact Form: 1A--1 pole make contact ;1B--1 pole break contact; 1C--1 pole change-over contact							
Model: GH							

Outline drawing

Unit: mm



Note: Part of the product has no tolerances on the external dimensions.

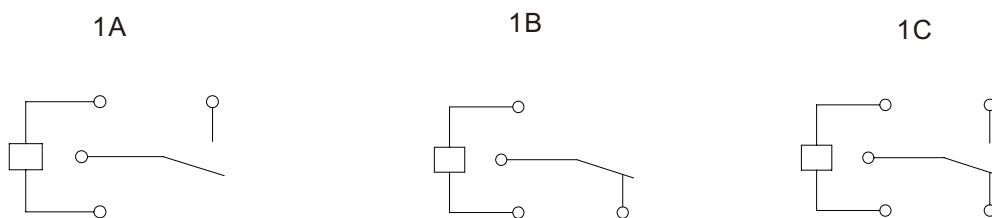
When the external dimensions are less than 1mm, the tolerance is $\pm 0.2\text{mm}$;

When the external dimension is between 1~5mm, the tolerance is $\pm 0.3\text{mm}$;

When the external dimension $> 5\text{mm}$, the tolerance is $\pm 0.4\text{mm}$.

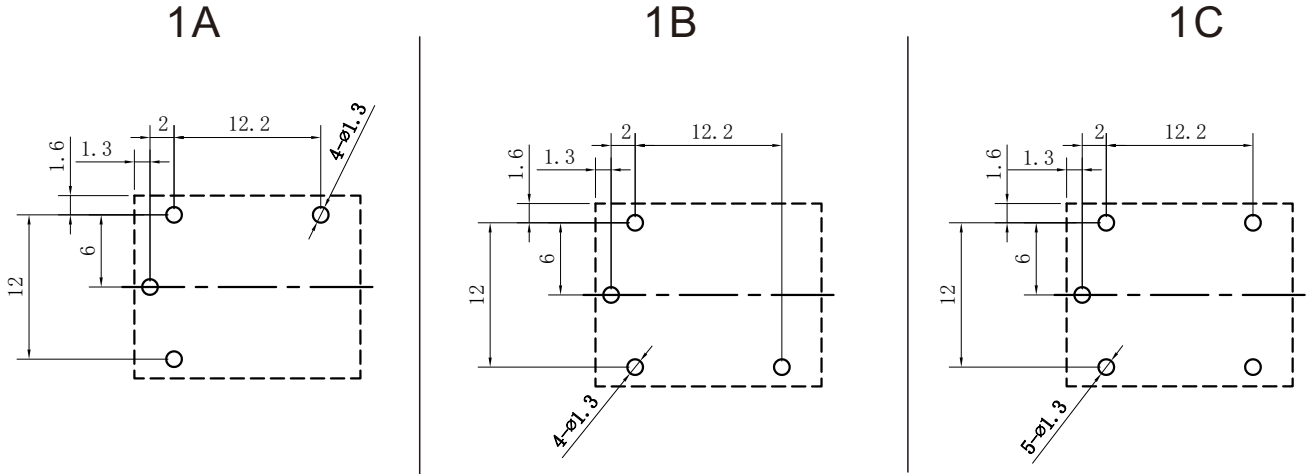
Wiring diagram (bottom view)

Unit: mm



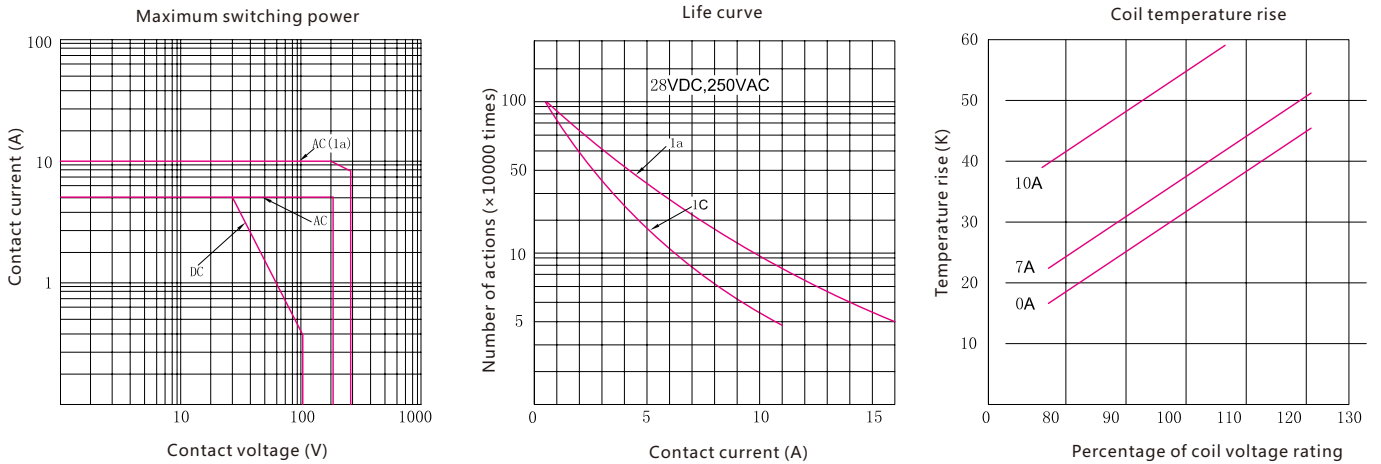
PCB Layout (bottom view)

Unit: mm



Note: The size of the lead terminal is the size before pre-welding; the size tolerance of the mounting hole: $\pm 0.1\text{mm}$.

Performance graph



statement:

This product specification is only for reference when customers use it, and subject to change without notice.

For Golden, it is impossible to evaluate all the performance parameter requirements of the relay in each specific application field. Therefore, the customer should choose the product that matches it according to the specific use conditions. If you have questions, please contact Golden for more technical support, but the customer is responsible for product selection.

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