


**特性**

- 30A触点切换能力
- 触点与线圈间耐压为4KV，爬电距离为8mm
- 具有两组常开、两组转换触点形式
- 塑封型和防尘罩型可供选择
- 具有印制板式和面板式两种安装形式
- 外形尺寸：(52.0×33.7×26.7)mm

**触点参数**

触点形式	2A,2C
接触电阻 <sup>(1)</sup>	≤100mΩ(1A 6VDC)
触点材料	银合金
触点负载(阻性)	NO:30A 250VAC,30A 277VAC NC:3A 250VAC,3A 277VAC
最大切换额定电压	277VAC
最大切换额定电流	30A
最大切换额定功率	8310VA
机械耐久性	5×10 <sup>6</sup> 次
电耐久性(阻性)	(NO:30A 277VAC,阻性负载, 室温, 1s通9s断) 1×10 <sup>5</sup> 次 (NC:3A 277VAC,阻性负载, 室温, 1s通9s断) 1×10 <sup>5</sup> 次

备注：(1) 上述值为初始值。

**性能参数**

绝缘电阻	1000MΩ(500VDC)	
介质耐压	线圈与触点间	4000VAC 1min
	断开触点间	1500VAC 1min
	触点组间	2000VAC 1min
浪涌电压(线圈与触点间)	10kV(1.2/50us)	
动作时间(额定电压下)	≤25ms (直流型)	
释放时间(额定电压下)	≤25ms (直流型)	
线圈温升(额定电压下)	≤90K(交流型) ≤70K(直流型)	
冲击	稳定性	98m/s <sup>2</sup>
	强度	980m/s <sup>2</sup>
振动	10Hz~55Hz 1.65mm 双振幅	
湿度	5%~85%Rh	
温度范围	交流型:-40℃~65℃ 直流型:-40℃~85℃	
引出端形式	印制板式、快连接式	
重量	约86g	

备注：上述值为初始值。

**线圈规格表**

温度：23°C

## 直流型

规格代号	额定电压 (VDC)	动作电压 (VDC)	释放电压 (VDC)	最大电压 (VDC)	线圈电阻 $\pm 10\%$ ( $\Omega$ )	线圈功率
5D	5	$\leq 3.8$	$\geq 0.5$	8.0	15.3	约1.7W
6D	6	$\leq 4.5$	$\geq 0.6$	9.6	22	
9D	9	$\leq 6.75$	$\geq 0.9$	14.4	48	
12D	12	$\leq 9$	$\geq 1.2$	19.2	86	
24D	24	$\leq 18$	$\geq 2.4$	38.4	350	
48D	48	$\leq 36$	$\geq 4.8$	76.8	1390	
110D	110	$\leq 82.5$	$\geq 11$	176	7255	

## 交流型 (50Hz)

规格代号	额定电压 (VDC)	动作电压 (VDC)	释放电压 (VDC)	最大电压 (VDC)	线圈电阻 $\pm 10\%$ ( $\Omega$ )	线圈功率
24A	24	$\leq 19.2$	$\geq 4.8$	26.4	45	约4VA
120A	120	$\leq 96$	$\geq 24$	132	1125	
208A	208	$\leq 166.4$	$\geq 41.6$	229	3278	
220A	220	$\leq 176$	$\geq 44$	242	3800	
240A	240	$\leq 192$	$\geq 48$	264	4500	
277A	277	$\leq 221.6$	$\geq 55.4$	305	5660	

## 交流型 (60Hz)

规格代号	额定电压 (VDC)	动作电压 (VDC)	释放电压 (VDC)	最大电压 (VDC)	线圈电阻 $\pm 10\%$ ( $\Omega$ )	线圈功率
24A1	24	$\leq 19.2$	$\geq 4.8$	26.4	35.7	约4VA
120A1	120	$\leq 96$	$\geq 24$	132	830	
208A1	208	$\leq 166.4$	$\geq 41.6$	229	2600	
220A1	220	$\leq 176$	$\geq 44$	242	2870	
240A1	240	$\leq 192$	$\geq 48$	264	3800	
277A1	277	$\leq 221.6$	$\geq 55.4$	305	4700	

## 交流型 (50Hz/60Hz)

规格代号	额定电压 (VDC)	动作电压 <sup>(1)</sup> (VDC)		释放电压 <sup>(1)</sup> (VDC)		最大电压 <sup>(2)</sup> (VDC)	线圈电阻 $\pm 10\%$ ( $\Omega$ )	线圈功率
		50Hz	60Hz	50Hz	60Hz			
120A2	120	$\leq 88$	$\leq 96$	$\geq 22$	$\geq 24$	132	950	约4VA
208A2	208	$\leq 160$	$\leq 166.4$	$\geq 40$	$\geq 41.6$	229	2841	
240A2	240	$\leq 176$	$\leq 176$	$\geq 44$	$\geq 48$	264	3800	
277A2	277	$\leq 200$	$\leq 200$	$\geq 50$	$\geq 55.4$	305	5485	

备注：(1) 上述值为初始值；

(2) 最大电压是指继电器线圈在短时间内能够承受的最大电压值。

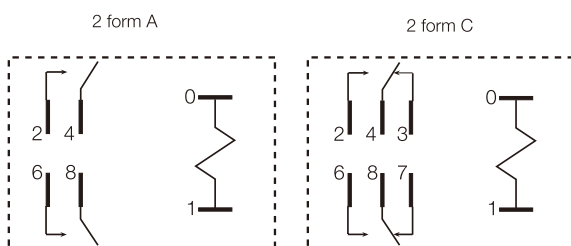
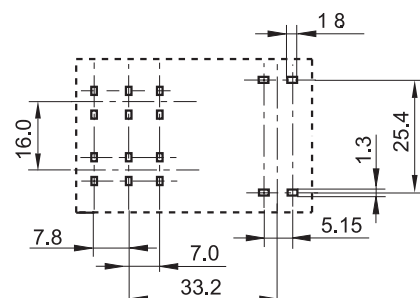
**安规认证**

认证类别	CQC	TUV	UL
证书号	CQC20002252987	R50484683	E321783
负载要求	NO:30A 250VAC/400VAC 30A 28VDC  NC:3A 250VAC/400VAC	NO:30A 250VAC/400VAC 30VDC  NC:30A/3A 250VAC/400VAC 30A/3A 28VDC	NO:30A 277VAC/250VAC 30A 240VAC/125VAC 2HP 600VAC 1.5HP 120VAC 3HP(20A) 240VAC  NC:3A 277VAC/250VAC 3A 240VAC/125VAC

**G92 命名规则**

G92	-2A	-12	D	X	C	XXX	
							特殊说明：无--标准型；字母或数字-特殊说明
							密封方式：无--塑封防尘；C--全密封型
							端子形式：无--PCB板焊接式， Q1--法兰外壳,6.35×0.8mm线圈QC端子， Q2--法兰外壳,4.75×0.8mm线圈QC端子
							线圈功率：D--直流1.7W，A--交流/50Hz 4VA A1--交流/60Hz 4VA,A2--交流/50Hz/60Hz 4VA
							线圈额定电压： 直流(VDC):5,6,12,24,48,110 交流50Hz(VAC):24,120,208,220,240,277 交流60Hz(VAC):24,120,208,220,240,277 交流50Hz/60Hz(VAC):120,208,240,277
							触点形式：2A--2组常开型，2C--2组转换型
							型号：G92

- 备注：(1) 对于快连接式引出端形式，不允许焊接和整体清洗，对于印制板式引出端形式，当继电器装入PCB板焊接后，如需进行整体清洗或表面处理，请与我司联系，以便商定合适的焊接条件、合适的产品规格；
- (2) 在洁净环境（不含H<sub>2</sub>S、SO<sub>2</sub>、NO<sub>2</sub>、粉尘等污染物）下使用时，推荐使用防尘罩型产品；  
在污染环境（含一定量的H<sub>2</sub>S、SO<sub>2</sub>、NO<sub>2</sub>、粉尘等污染物）下使用时，建议选用塑封型产品，并请在实际使用中确认；
- (3) 客户特殊要求由我司评审后，按特性号的形式标识；
- (4) 该产品型管包装的标准尺寸长为350mm，如需特殊定制，请与我司联系。

**接线图、安装孔尺寸图**
**单位:mm**
**接线图(底视图)**

**安装孔尺寸图(底视图)**


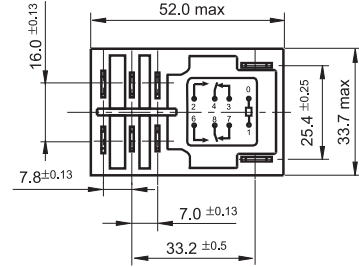
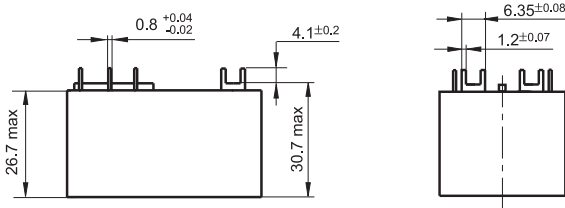
外形图、安装孔尺寸图

单位:mm

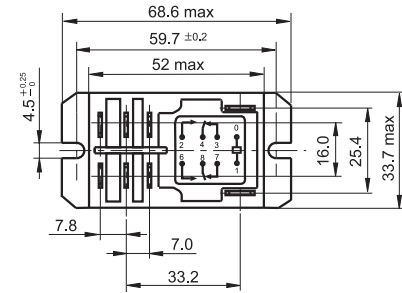
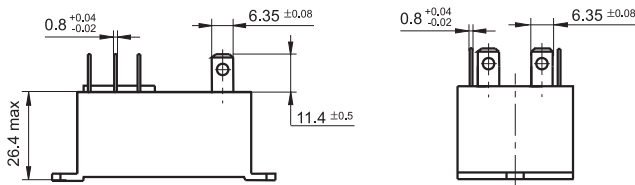
外形图

脚位图(底视图)

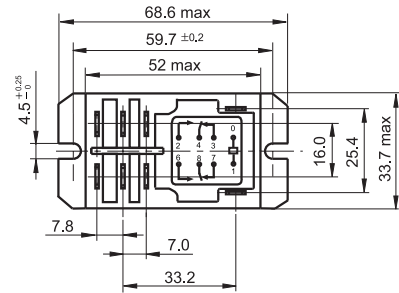
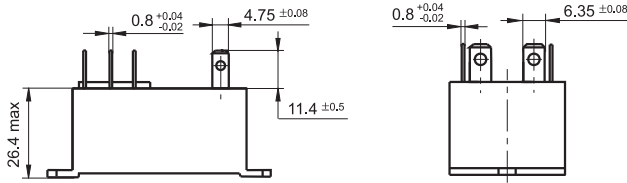
标准型 (PCB引出脚)



Q1型-法兰外壳Q1型(QC引出脚)

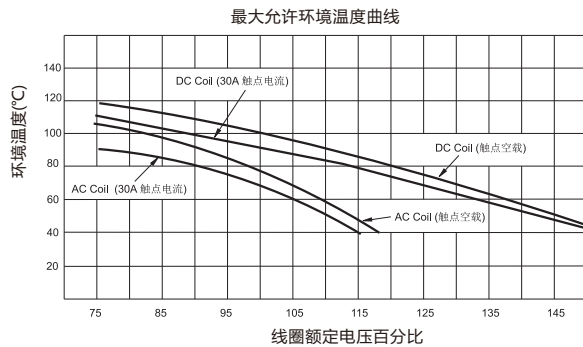


Q2型-法兰外壳Q2型(QC引出脚)



备注: (1) 产品外形图的引脚标注尺寸为沾锡前尺寸(沾锡后会变大), 安装孔尺寸为推荐的PCB板孔的设计尺寸,具体PCB板孔设计尺寸可根据产品实物进行测绘、调整;  
 (2) 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(1~5)mm之间时, 公差为±0.3mm; 当外形尺寸>5mm, 公差为±0.4mm;  
 (3) 安装孔尺寸中未注尺寸公差为±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所有性能参数要求,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,但是产品选型责权由客户负责。

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## Characteristics

- 30A contact switching capability
- The withstand voltage between the contact and the coil is 4KV, and the creepage distance is 8mm
- Plastic and dust cover types are available
- Available in both printed board and panel installations
- Sizes:(52.0× 33.7× 26.7)mm

## Contact parameter

Contact form	2A,2C
Contact resistance <sup>(1)</sup>	≤100mΩ(1A 6VDC)
Contact material	Silver alloy
Contact load (resistance)	NO:30A 250VAC,30A 277VAC NC:3A 250VAC,3A 277VAC
Max. Switching Voltage	277VAC
Max. Switching Current	30A
Max. Switching Power	8310VA
Mechanical Life	5,000,000 ops.
Electrical Life (Resistive)	100,000 ops. (NO: 30A 277VAC, resistive load, room temperature, 1s on 9s off) 100,000 ops. (NC: 3A 277VAC, resistive load, room temperature, 1s on 9s off)

Note: (1) The above values are initial values.

## Performance parameter

Insulation resistance	1000MΩ(500VDC)	
Dielectric Strength	Between coil & contacts	4000VAC 1min
	Between contacts & contacts	2000VAC 1min
	Between open contacts	1500VAC 1min
Surge voltage (Between coil & contacts)	10kV(1.2/50us)	
Operating time (under rated voltage)	≤25ms (DC type)	
Release time (under rated voltage)	≤25ms (DC type)	
Coil temperature rise (at rated voltage)	≤90K(AC type); ≤70K(DC type)	
Vibration resistant	10Hz ~ 55Hz 1.65mm double amplitude	
Impact resistance	Malfunction	98m/s <sup>2</sup>
	Durability	980m/s <sup>2</sup>
humidity	5% ~ 85%Rh	
Operating Condition	AC type: -40°C ~ 65°C ; DC type: -40°C ~ 85°C	
Terminal Type	PCB type, quick connect type	
weight	About 86g	

Note: The above values are initial values.

## Coil parameter

Temperature: 23°C

### DC type

Volts	Rated voltage (VDC)	operating voltage (VDC)	release voltage (VDC)	Max. voltage (VDC)	Coil resistance $\pm 10\%(\Omega)$	Coil power
5D	5	$\leq 3.8$	$\geq 0.5$	8.0	15.3	about 1.7W
6D	6	$\leq 4.5$	$\geq 0.6$	9.6	22	
9D	9	$\leq 6.75$	$\geq 0.9$	14.4	48	
12D	12	$\leq 9$	$\geq 1.2$	19.2	86	
24D	24	$\leq 18$	$\geq 2.4$	38.4	350	
48D	48	$\leq 36$	$\geq 4.8$	76.8	1390	
110D	110	$\leq 82.5$	$\geq 11$	176	7255	

### AC type (50Hz)

Volts	Rated voltage (VDC)	operating voltage (VDC)	release voltage (VDC)	Max. voltage (VDC)	Coil resistance $\pm 10\%(\Omega)$	Coil power
24A	24	$\leq 19.2$	$\geq 4.8$	26.4	45	about 4VA
120A	120	$\leq 96$	$\geq 24$	132	1125	
208A	208	$\leq 166.4$	$\geq 41.6$	229	3278	
220A	220	$\leq 176$	$\geq 44$	242	3800	
240A	240	$\leq 192$	$\geq 48$	264	4500	
277A	277	$\leq 221.6$	$\geq 55.4$	305	5660	

### AC type (60Hz)

Volts	Rated voltage (VDC)	operating voltage (VDC)	release voltage (VDC)	Max. voltage (VDC)	Coil resistance $\pm 10\%(\Omega)$	Coil power
24A1	24	$\leq 19.2$	$\geq 4.8$	26.4	35.7	about 4VA
120A1	120	$\leq 96$	$\geq 24$	132	830	
208A1	208	$\leq 166.4$	$\geq 41.6$	229	2600	
220A1	220	$\leq 176$	$\geq 44$	242	2870	
240A1	240	$\leq 192$	$\geq 48$	264	3800	
277A1	277	$\leq 221.6$	$\geq 55.4$	305	4700	

### AC type (50Hz/60Hz)

Volts	Rated voltage (VDC)	operating voltage <sup>(1)</sup> (VDC)		release voltage <sup>(1)</sup> (VDC)		Max. <sup>(2)</sup> voltage (VDC)	Coil resistance $\pm 10\%(\Omega)$	Coil power
		50Hz	60Hz	50Hz	60Hz			
120A2	120	$\leq 88$	$\leq 96$	$\geq 22$	$\geq 24$	132	950	about 4VA
208A2	208	$\leq 160$	$\leq 166.4$	$\geq 40$	$\geq 41.6$	229	2841	
240A2	240	$\leq 176$	$\leq 176$	$\geq 44$	$\geq 48$	264	3800	
277A2	277	$\leq 200$	$\leq 200$	$\geq 50$	$\geq 55.4$	305	5485	

Note: (1) The above values are initial values;

(2) The maximum voltage refers to the maximum voltage that the relay coil can withstand in a short period of time.

**Safety certification**

Certification category	CQC	TUV	UL
Certificate No	CQC20002252987	R50484683	E321783
Load requirement	NO:30A 250VAC/400VAC 30A 28VDC  NC:3A 250VAC/400VAC	NO:30A 250VAC/400VAC 30VDC  NC:30A/3A 250VAC/400VAC 30A/3A 28VDC	NO:30A 277VAC/250VAC 30A 240VAC/125VAC 2HP 600VAC 1.5HP 120VAC 3HP(20A) 240VAC  NC:3A 277VAC/250VAC 3A 240VAC/125VAC

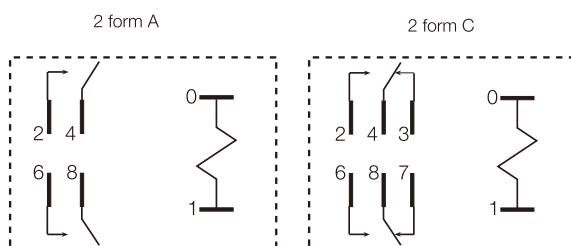
**G92 Naming rules**

G92	-2A	-12	D	X	C	XXX	
							Special instructions: none--standard; letters or numbers-special instructions
							Sealing method : Blank--Dust protected (RT I) ; C--Fully sealed (RT III)
							Mounting type: : Blank--PCB welding Q1--Flange case with tab of flat quick-connect 6,35 × 0,8mm Q2--Flange case with tab of flat quick-connect 4,75 × 0,5mm
							Rated coil power : D--DC coil power: 1.7W;A--AC for 50Hz, coil power: 4VA A1--AC for 60Hz, coil power: 4VA;A2--AC for 50Hz/60Hz, coil power: 4VA
							Rated Coil voltage : VDC:5,6,12,24,48,110 50Hz(VAC):24,120,208,220,240,277 60Hz(VAC):24,120,208,220,240,277 50Hz/60Hz(VAC):120,208,240,277
							Contact Form: 2A--2 poles make contact ;2C--2 poles change-over contact
							Model: G92

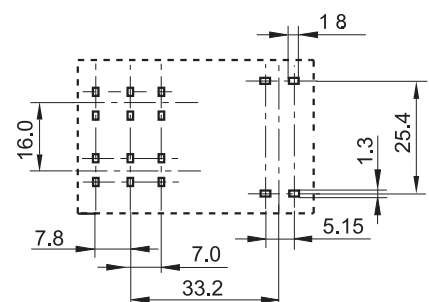
**Wiring diagram (bottom view),Mounting hole sizes (bottom view)**

**Unit: mm**

Wiring Diagram  
(Bottom View)



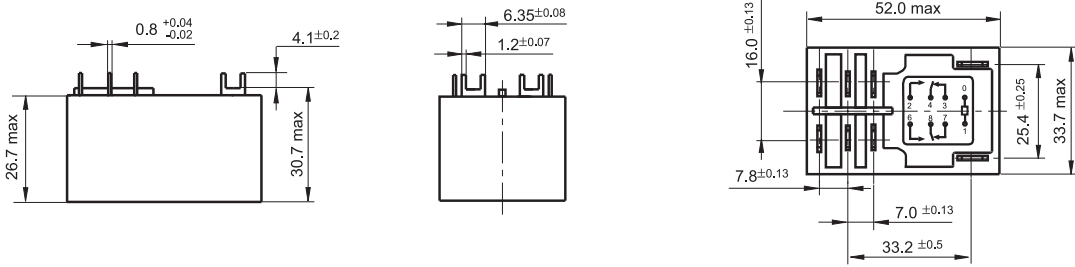
Mounting hole sizes  
(bottom view)



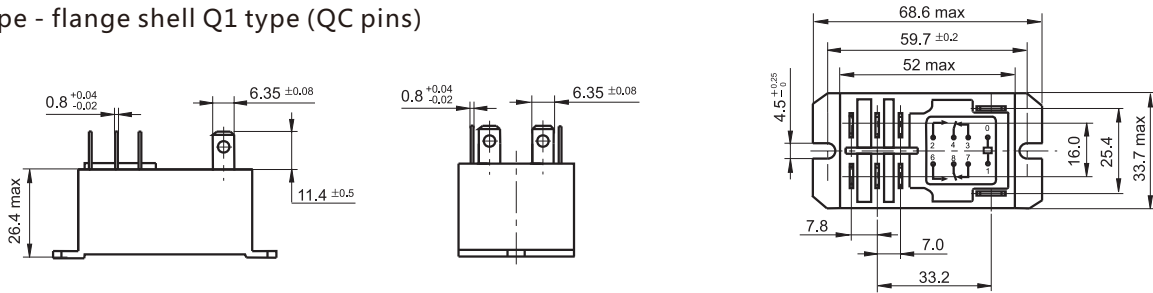
**Outline drawing**

**Unit: mm**

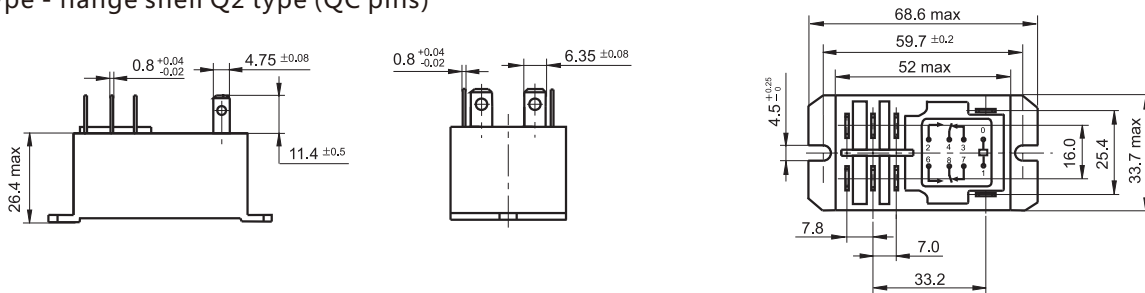
**Standard type (PCB pinout)**



**Q1 type - flange shell Q1 type (QC pins)**



**Q2 type - flange shell Q2 type (QC pins)**



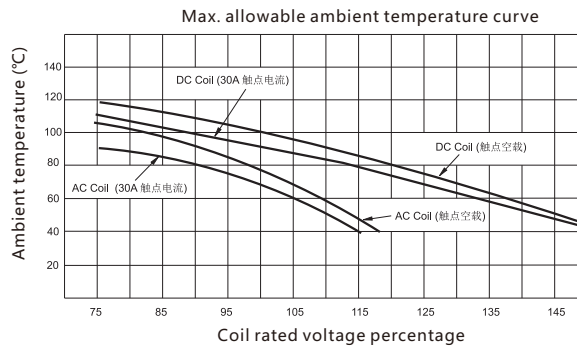
Note: (1) The pin size of the product outline drawing is the size before tinning (it will become larger after tinning), and the mounting hole size is the recommended design size of the PCB board hole. The specific PCB board hole design size can be determined according to the product.

Mapping and adjustment of the actual product;

(2) The external dimension of the product is not marked with dimensional tolerance. When the external dimension is ≤ 1mm, the tolerance is ± 0.2mm; when the external dimension is between (1 ~ 5)mm, the tolerance is ± 0.3mm; when the external dimension is between (1 ~ 5)mm, the tolerance is ± 0.3mm; Size > 5mm, tolerance is ± 0.4mm;

(3) The dimensional tolerance not noted in the mounting hole dimensions is ± 0.1mm.

**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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