

# HLR-A4G-6

## Forced guide relay









- 6A contact switching capability;
- Multi-group contact combination: two groups of nor mally open + two groups of normally closed, three grou ps of normally open + one group of normally closed;
- Forced guide contact structure (according to IEC6181 0-3 standard);
- Strong insulation ability: input and output can withst and 6 kV surge impulse voltage;
- UL Insulation class: F class;

Coil paramotor

■ Overall dimensions: (35×12.6×25.5)mm.

**RoHS** compliant

Contact parameter		
Contact form	2H2D	
Contact resistance	≤100mΩ(1A 6VDC)	
Contact material	AgSnO <sub>2</sub>	
Rated load	6A 250VAC, 6A 24VDC	
Maximum switching voltage	30VDC/400VAC	
Maximum switching current	6A	
Maximum switching power	180W/1500VA	
Mechanical durability	1×10 <sup>7</sup> time	
Electrical durability	1×10 <sup>5</sup> time (6A250VAC, resistive load, room temperature, 1s on 9s off)	

Note: The preceding values are initial values.

Performance	
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Insul	ation resistance	1000MΩ(500VDC)	
Dielec	Disconnect tric between contact	5 1500VAC 1min	
withst	and contact groups	3000VAC 1min	
voltag	e Between coil and contact	4000VAC 1min	
Impuls voltag	e Between coil	6kV(1.2×50µs)	
qO	erating time rated voltage)	≤20ms	
Rel	ease time rated voltage)	≤10ms	
strike	stability	NO: 98m/s <sup>2</sup> NC: 49m/s <sup>2</sup>	
	strength	980m/s²	
		10Hz ~ 55Hz 1.5mm Double amplitude	
Vibra	tion	55Hz~200Hz, NO: 10g, NC:	
Humi	dity	5% ~ 85%RH-40	
Temp	erature range	°C ~ 85°C	
Outle	t form	Printed plate	
Weig	ht	About 25g	
Encapsulation mode		Plastic seal	

Note: The preceding values are initial values.

Con parameter			
Rated coil power	About 1W		
Holding voltage	50%~120%Un (Ambient temperature 25°C) 60%~80%Un (Ambient temperature 85°C)		

Note: (1) Coil holding voltage is the coil voltage applied after the

rated voltage is applied 100ms;
(2) The relay coil is not allowed to apply more than the upper limit value of the holding voltage for a long time to prevent the relay from overheating and burning.

#### Coil specification sheet

Rated voltage VDC	Operating voltage VDC	Release voltage VDC	Maximum voltage <sup>(2)</sup> VDC	Coil resistance
6	≤4.20	≥0.6	8.4	36×(1±10%)
12	≤8.40	≥1.2	16.8	150×(1±10%)
20	≤14.0	≥2.0	28	400×(1±10%)
24	≤16.8	≥2.4	33.	580×(1±10%)
48	≤33.6	≥4.8	667.2	2300×(1±10%)
60	≤42.0	≥6.0	64	3600×(1±10%)
110	≤77.0	≥11	154	12100×(1±10%)

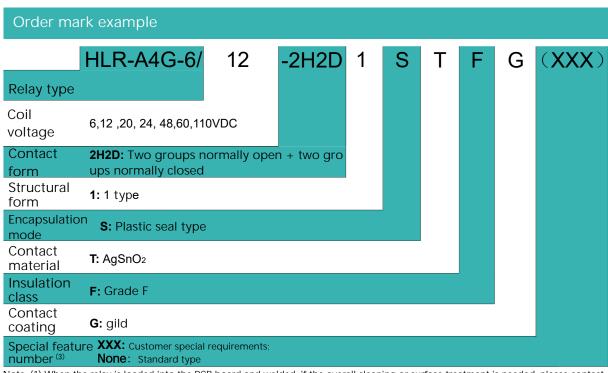
Note: (1) The above values are initial values;

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

### Safety certification

		6A 250VAC Resistive load	85°C
UL	1NO	6A 24VDC Resistive load	85°C
OL		B300/R300	85°C
	1NC	6A 250VAC Resistive load	85°C
	1NO	6 A 250VAC Resistive load	85°C
		6 A 24VDC Resistive load	85°C
		3A 400VAC Resistive load	85°C
TUV		AC-15 3A 250VAC	85°C
		DC-13 4A 24VDC	85°C
	1NC	6A 250VAC Resistive load	85°C
		AC-15 1A 250VDC	85°C
		DC-13 3A 24VDC	85°C

Note: The above only lists part of the load of the product certification, if you need more details, please contact us.

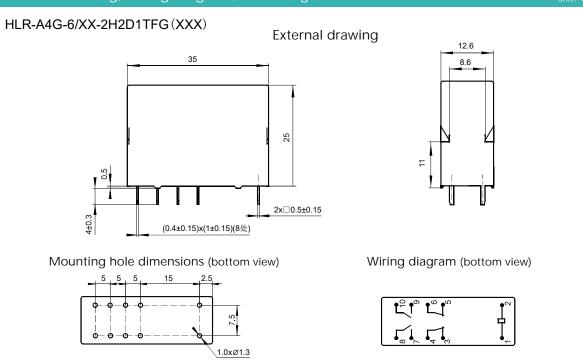


Note: (1) When the relay is loaded into the PCB board and welded, if the overall cleaning or surface treatment is needed, please contact our company to a gree on appropriate welding conditions and appropriate product specifications;

(2) For gold-plated contacts, the minimum load is 10mA 5VDC, if the customer has a special load, please contact us for evaluation, provide suitable product specifications; (3) The special requirements of customers shall be identified by the form of feature number after review by our company.

## Outline drawing, wiring diagram, mounting hole dimensions

Unit: mm



Note: (1) No dimensional tolerance is noted in the overall dimensions of the product part. When the overall dimensions are less than 1 mm, the tolerance is  $\pm 0.2$ mm; When the overall size is > 5mm, the tolerance is  $\pm 0.4$ mm; When the overall size is > 5mm, the tolerance is  $\pm 0.4$ mm;

(2) The dimension tolerance of the mounting hole is ±0.1mm