

HF9614

1/2 CUBIC INCH 1 FORM C HERMETICALLY SEALED RELAY



Features

- Force balanced latching relay
- 25A contacts switching capability
- Failure rate can be L level
- High ambient applicability
- All metal welded construction
- Hermetically welded and marked by laser

Conform to GJB2888-97 (Equivalent to MIL-PRF-83536)

AMBIENT ADAPTABILITY

Ambient grade	I	II	III
Ambient temperature	-55 °C to 85 °C	-55 °C to 85 °C	-65 °C to 125 °C
Humidity			98%, 40 °C
Low air pressure	58.53 kPa	4.39 kPa	4.39 kPa
Sine vibration	Frequency	10 Hz to 1000 Hz	10 Hz to 2000 Hz
	Acceleration	147 m/s ²	196 m/s ²
Shock resistance	490 m/s ²	980 m/s ²	1960 m/s ²
Random vibration	—	20 (m/s ²) ² /Hz	40 (m/s ²) ² /Hz
Steady-state acceleration	147 m/s ²	294 m/s ²	490 m/s ²

CONTACT DATA

Ambient grade	I	II	III
Arrangement			1 C
Contact resistance or voltage drop	Initial max.	0.2V	0.15V
	After life max.	0.25V	0.175V

Contact and life ratings

Type	Contact load		Electrical life min.
	28Vd.c.	115V a.c. 400Hz Single phase	
Resistive	25A	25A	5 × 10 ⁴ OPS
Inductive	12A	—	1 × 10 ⁴ OPS
Inductive	—	15A	2 × 10 ⁴ OPS
Motor	10A	—	5 × 10 ⁴ OPS
Lamp load	5A	—	5 × 10 ⁴ OPS



HONGFA HERMETICALLY SEALED RELAY

SPECIFICATION

Ambient grade		I	II	III
Insulation resistance min.	Initial	100 MΩ (@ 500 Vd.c.)	100 MΩ (@ 500 Vd.c.)	100 MΩ (@ 500 Vd.c.)
	After life or after testing	50 MΩ (@ 500 Vd.c.)	50 MΩ (@ 500 Vd.c.)	50 MΩ (@ 500 Vd.c.)
Dielectric strength min. (Normal condition)	Between coil & cover, coil & coil (initial)	1000 Vr.m.s.	1000 Vr.m.s.	1000 Vr.m.s.
	Between other insulation parts (initial)	1250 Vr.m.s.	1250 Vr.m.s.	1250 Vr.m.s.
	Between other insulation parts (after life)	1000 Vr.m.s.	1000 Vr.m.s.	1000 Vr.m.s.
Dielectric strength min. (Low air pressure condition)	Between coil & cover, coil & coil	250 Vr.m.s.	250 Vr.m.s.	250 Vr.m.s.
	Between other insulation parts	350 Vr.m.s.	350 Vr.m.s.	350 Vr.m.s.
Leakage rate max.		1 Pa·cm ³ /s	1 × 10 ⁻¹ Pa·cm ³ /s	1 × 10 ⁻³ Pa·cm ³ /s
Operate time max.				10 ms
Coil pulse width min.				40 ms
Mounting style		See the mounting dimension		
Terminals		See the terminal styles		
Work position		Random		
Weight max.		47 g		

COIL DATA

Norminal coil power		Approx.1.3W
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(1±10%)

Coil Version

Vd.c.

Order Number	Coil voltage		at 25 °C		-65°C to 125°C	Pick-up voltage max.	
	Nominal voltage	Value max.	Coil resistance (Ω)(1±10%)	Pick-up voltage max.		Pick-up voltage max.	High temp. test
028	28	29.0	600	15.5	20.0	21.0	25.0

Notes: We can offer many kinds of coil voltage under the requirement of users.

ORDERING INFORMATION

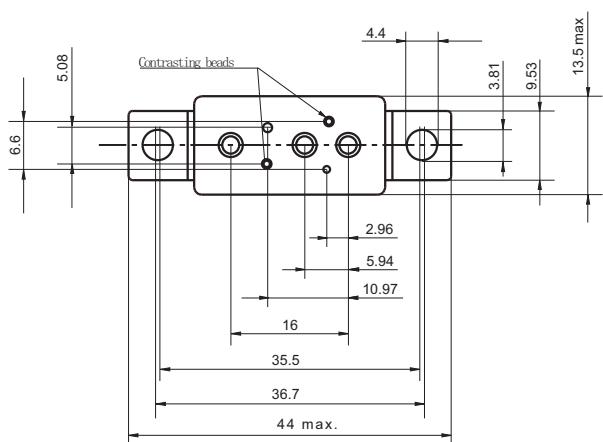
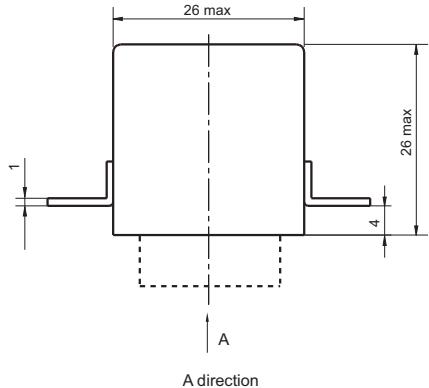
Type	HF9614	-012	L	-0	1	- II	
Order Number	028						
Failure Rate	L: Failure rate level L (level III products available) Nil: Without failure rate requirement(level I ,II ,III products available)						
Mounting Style	2, 3 (See the mounting dimension)						
Terminals Style	2, 4 (See " Terminal styles " below)						
Ambient Grade	I : level I II : level II III: level III						

Notes: 1) For the failure rate of L ,the letter "III" of ambient grade level will not appear on relay cover.

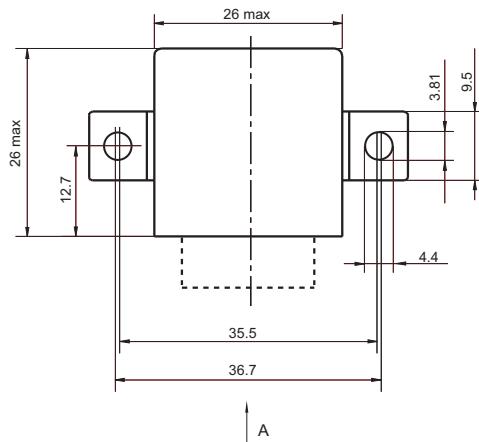
OUTLINE DIMENSIONS AND WIRING DIAGRAM

Unit:mm

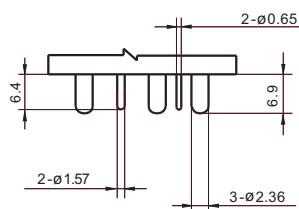
Outline Dimension



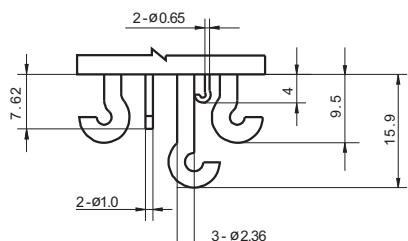
Mounting style 2



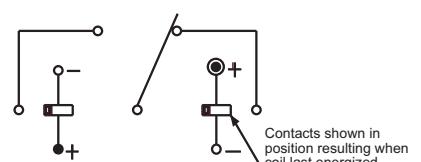
Mounting style 3



Terminal style 2
(Solder pin)



Terminal style 4
(Solder hook)



Wiring Diagram
(Bottom View)

Disclaimer

This datasheet is for the customers' reference. All the specifications are subject to change without notice.

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