

HF9211

1/5 CRYSTAL CAN 2 FORM C HERMETICALLY SEALED ELECTRO MAGNETIC RELAY WITH COIL TRANSIENT SUPPRESSION



Features

- With coil transient suppression
- Load can be 2A 28Vd.c.
- Failure rate level can be level M
- High ambient applicability
- Diode inside
- All metal welded construction
- Fusing soldering and marked by laser

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	10 Hz to 3000 Hz
	Acceleration	147 m/s ²	196 m/s ²	294 m/s ²
Shock resistance		490 m/s ²	735 m/s ²	980 m/s ²
Random vibration		—	20 (m/s ²)/Hz	40 (m/s ²)/Hz
Steady-state acceleration		147 m/s ²	735 m/s ²	980 m/s ²

CONTACT DATA

Ambient grade		I	II	III
Arrangement		2C		
Contact resistance	Initial max.	50 mΩ		
	After life max.	150 mΩ		

Contact ratings

Ambient grade	Contact load	Type	Electrical life min.
I	1 A 28 Vd.c.	Resistive	1 x 10 ⁵ OPS
	2 A 28 Vd.c.	Resistive	5 x 10 ⁴ OPS
II	1 A 28 Vd.c.	Resistive	1 x 10 ⁵ OPS
	0.125 A 115 Va.c.	Resistive	1 x 10 ⁵ OPS
	0.3 A 28 Vd.c. 200 mH	Inductive	1 x 10 ⁵ OPS
III	2 A 28 Vd.c.	Resistive	5 x 10 ⁴ OPS
	1 A 28 Vd.c.	Resistive	1 x 10 ⁵ OPS
	0.125 A 115 Va.c.	Resistive	1 x 10 ⁵ OPS
	0.3 A 28 Vd.c. 200 mH	Inductive	1 x 10 ⁵ OPS
	0.1 A 28 Vd.c.	Lamp load	1 x 10 ⁵ OPS
	50 μA 50m Vd.c.	Low level	1 x 10 ⁵ OPS



HONGFA HERMETICALLY SEALED RELAY

SPECIFICATION

Ambient grade	I	II	III	
Insulation resistance min.	1000 MΩ (@ 500 Vd.c.)	10000 MΩ (@ 500 Vd.c.)	10000 MΩ (@ 500 Vd.c.)	
Dielectric strength min. (Normal condition)	Between open contacts	500 Vr.m.s.	500 Vr.m.s.	500 Vr.m.s.
	Between contact & coil	500 Vr.m.s.	750 Vr.m.s.	750 Vr.m.s.
	Between contact & cover	500 Vr.m.s.	750 Vr.m.s.	750 Vr.m.s.
	Between contact group	500 Vr.m.s.	750 Vr.m.s.	750 Vr.m.s.
	Between coil & cover	500 Vr.m.s.	500 Vr.m.s.	500 Vr.m.s.
Dielectric strength min. (Low air pressure condition)	300 Vr.m.s.	350 Vr.m.s.	350 Vr.m.s.	
Leakage rate max.	1 Pa·cm ³ /s	1 x 10 ⁻¹ Pa·cm ³ /s	1 x 10 ⁻³ Pa·cm ³ /s	
Operate time max.	6 ms	4 ms	4 ms	
Release time max.	6 ms			
Mounting style	See the mounting dimension			
Terminals	See the terminal styles			
Work position	Random			
Weight max.	4.8 g			

COIL DATA

Normal coil power Approx.0.69W

Coil Version

Order Number	Coil voltage		at 25 °C					-65°C to 125°C		Drop-out voltage min.
	Nominal voltage	Value max.	Coil resistance (1±10%) Ω	Pick-up voltage max.		Hold voltage max.	Drop-out voltage min.	Pick-up voltage max.		
				I	II, III			I	II, III	
005	5	7	44	3.3	2.4	1.45	0.26	3.7	3.3	0.16
006	6	8	56	3.9	2.7	1.60	0.30	4.5	3.8	0.18
009	9	12	140	5.9	4.4	2.60	0.50	6.8	6.0	0.30
012	12	16	210	7.8	5.4	3.20	0.60	9.0	7.4	0.36
018	18	24	650	11.7	9.5	5.60	1.00	13.5	12.8	0.60
027	27	35	1350	17.6	13.5	8.10	1.50	20.2	18.0	0.90

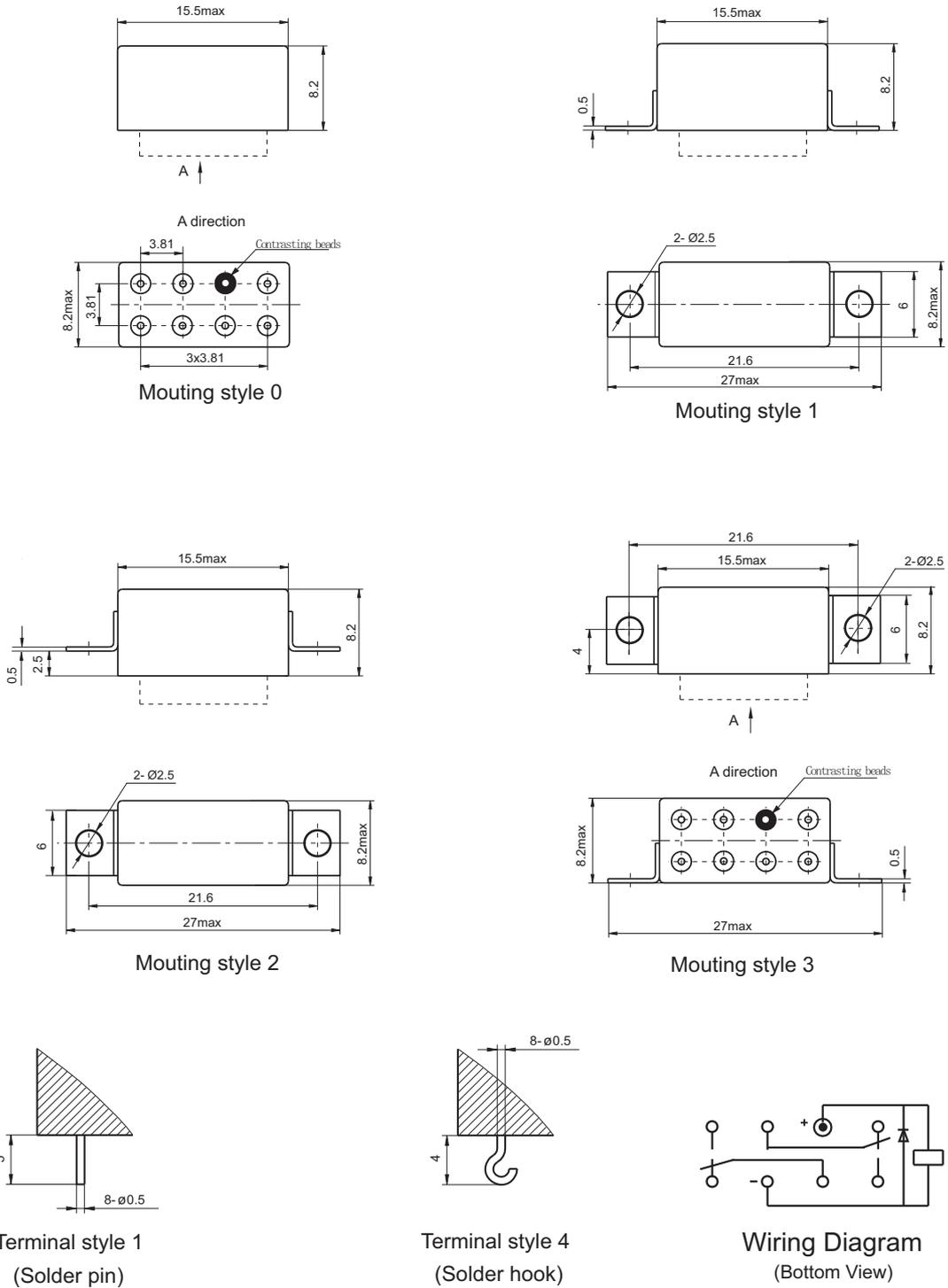
Notes: We can offer many kinds of of coil voltage under the requirement of users.

ORDERING INFORMATION

Type	HF9211	-012	M	-0	1	- I
Order Number	005、006、009、012、018、027					
Failure Rate	L: Failure rate level L (level III products available) ¹⁾ M: Failure rate level M (level III products available) ¹⁾ Nil: Without failure rate requirement(level I ,II ,IIIproducts available)					
Mounting Style	0, 1, 2, 3 (See the mounting dimension)					
Terminals Style	1, 4 (See " Terminal styles " below)					
Ambient Grade	I : level I II : level II III: level III					

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

Outline Dimension



Disclaimer

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

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