

HF9316

HALF-SIZE CRYSTAL CAN SENSITIVE
HERMETICALLY SEALED ELECTRO MAGNETIC RELAY



Features

- Sensitive type
- Coil power can be 0.5W
- Failure rate level can be level M
- All metal welded construction
- Hermetically welded 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 to1000 Hz	10 Hz to 2000 Hz	10 Hz to 2500 Hz
	Acceleration	147 m/s ²	196 m/s ²	196 m/s ²
Shock resistance	490 m/s ²		490 m/s ²	490 m/s ²
Random vibration			20 (m/s ²) ² /Hz	40 (m/s ²) ² /Hz
Steady-state acceleration				490 m/s ²

CONTACT DATA

Ambient grade	I		II	III
Arrangement				2 C
Contact resistance	Initial max.			50 mΩ
	After life max.			100 mΩ
Failure level				Level L、M

Contact ratings

Ambient grade	Contact load	Type	Electrical life min.
I	2 A 28 Vd.c.	Resistive	5 x 10 ⁴ ops
	2 A 28 Vd.c.	Resistive	5 x 10 ⁴ ops
II	0.1 A 115 Va.c.	Resistive	1 x 10 ⁵ ops
	0.5 A 28 Vd.c. 200 mH	Inductive	1 x 10 ⁵ ops
III	2 A 28 Vd.c.	Resistive	1 x 10 ⁵ ops
	0.1 A 115 Va.c.	Resistive	1 x 10 ⁵ ops
	0.5 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 50 mVd.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	750 Vr.m.s.	1000 Vr.m.s.	1000 Vr.m.s.
	Between contact & cover	750 Vr.m.s.	1000 Vr.m.s.	1000 Vr.m.s.
	Between contact group	750 Vr.m.s.	1000 Vr.m.s.	1000 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)		350 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		
Release time max.		5 ms		
Mounting style		See the mounting dimension		
Terminals		See the terminal styles		
Work position		Random		
Weight max.		13 g		

COIL DATA

Norminal coil power	Approx. 0.5W
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Coil Version

Order Number	Coil voltage		at 25 °C					-65°C to 125°C			
	Nominal voltage	Value max.	Coil resistance (1±10%) Ω	Pick-up voltage max.		Hold voltage max.	Drop-out voltage min.	Pick-up voltage max.		Hold voltage max.	Drop-out voltage min.
				I	II , III			I	II , III		
005	5	7	47	3.0	2.7	1.32	0.18	4.0	3.8	1.9	0.10
006	6	9	75	3.6	3.2	1.65	0.21	4.8	4.5	2.4	0.12
012	12	20	310	7.2	6.4	3.35	0.42	9.6	9.0	4.8	0.24
027	27	35	1030	16.2	13.5	6.90	0.95	21.6	18.0	10.0	0.54
036	36	56	2640	21.6	19.4	10.9	1.26	28.8	27.0	15.8	0.72

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

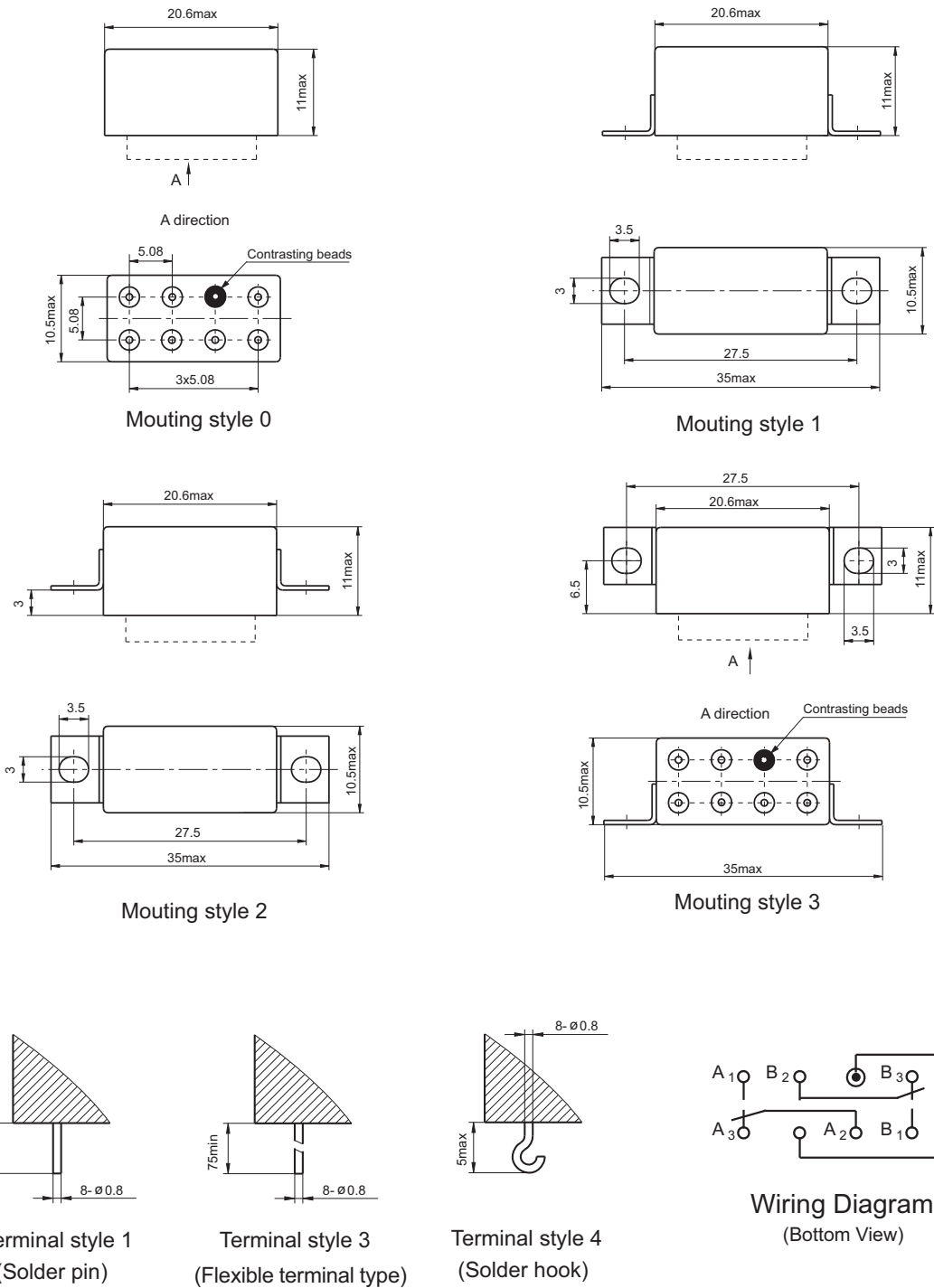
ORDERING INFORMATION

Type	HF9316	-012	M	-0	1	- I
Order Number	005、006、012、027、036					
Failure Rate	L: Failure rate level L (level III products available) M: Failure rate level M (level III products available) Nil: Without failure rate requirement(level I ,II products available)					
Mounting Style	0、1、2、3 (See the mounting dimension)					
Terminals Style	1、3、4 (See " Terminal styles " below)					
Ambient Grade	I : level I II : level II Nil: level III (with failure rate requirement)					

OUTLINE DIMENSIONS AND WIRING DIAGRAM

Unit:mm

Outline Dimension



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

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