

HF9616

1 CUBIC INCH 3 FORM C HERMETICALLY SEALED LATCHING 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

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	980 m/s ²	1960 m/s ²
Random vibration		10 (m/s ²) ² /Hz	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		3 C		
Contact resistance or voltage drop	Initial max.	0.01Ω		
	After life max.	0.125V		
Failure level		Level L		

Contact and life ratings

Type	Contact load		Electrical life min.
	28Vd.c.	115/200Va.c. 400Hz Three phase	
Resistive	25 A	25 A	5 x 10 ⁴ OPS
Inductive	12 A		1 x 10 ⁴ OPS
Inductive		15 A	2 x 10 ⁴ OPS
Motor	10 A		5 x 10 ⁴ OPS
Lamp load	5 A		5 x 10 ⁴ OPS

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 (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 testing)	1000 Vr.m.s.	1000 Vr.m.s.	1000 Vr.m.s.
Dielectric strength min. (Low air pressure condition)		250 Vr.m.s.	250 Vr.m.s.	250 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.		15 ms		
Release time max.		45 ms		
Mounting style		See the mounting dimension		
Terminals		See the terminal styles		
Work position		Random		
Weight max.		85 g		

COIL DATA

Norminal coil power	Approx. 2W
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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) min.	Pick-up voltage max.	Pick-up voltage max.	High temp. test	Continuous electric test
006	6	7.3	25	3.5	4.5	5	5.7
012	12	14.5	100	6.5	9.0	9.9	11.25
028	28	29.0	405	15.5	20.0	21.0	25.0

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

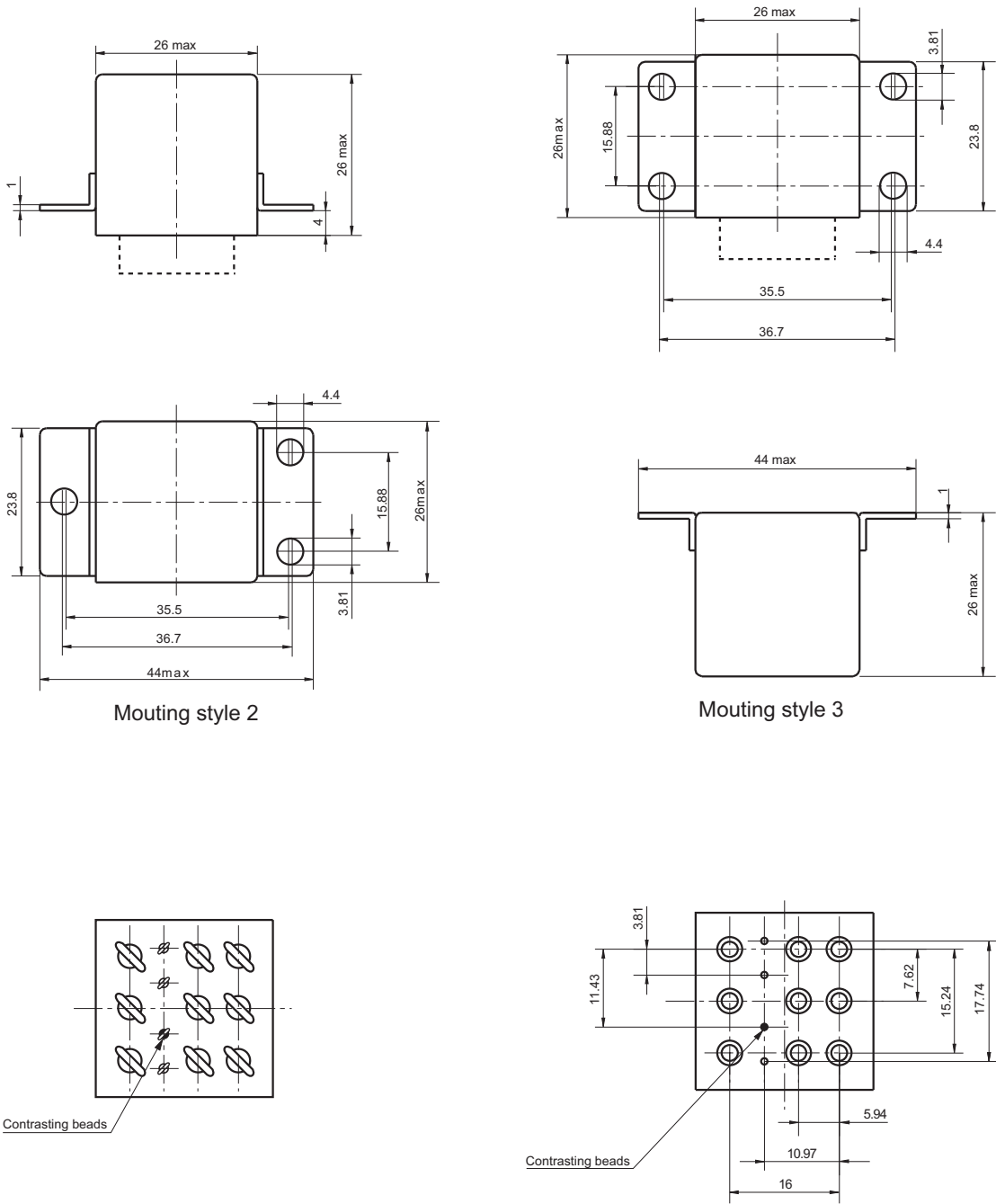
ORDERING INFORMATION

Type	HF9616	-028	L	-2	2	- II
Order Number	006、012、028					
Failure Rate	L (level 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 Nil: level III (With failure rate requirement)					

OUTLINE DIMENSIONS AND WIRING DIAGRAM

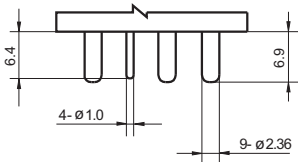
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Outline Dimension

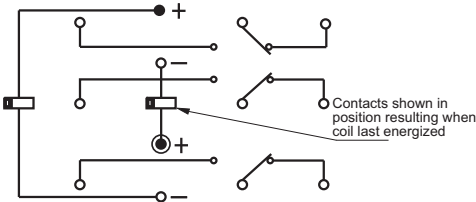


OUTLINE DIMENSIONS AND WIRING DIAGRAM

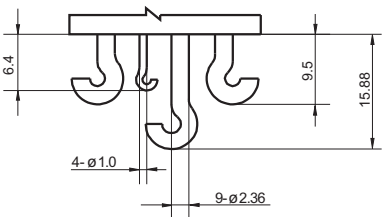
Unit:mm



Terminal style 2
(Solder pin)



Wiring Diagram
(Bottom View)



Terminal style 4
(Solder hook)

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