

# 3F Series

## 10 Amp Miniature

### Power PC Board Relay

UL File No.: E322305/E322513

TUV File No.: R 50153318

- 10 Amp 250VAC switching capacity.
- Flux-tight or sealed version available.
- Low coil input.



#### Contact Data

Arrangements	1A, 1C	
Material	Ag Alloy	
Initial Contact Resistance (1A 6VDC)	<100mΩ	
Minimum Load	100mA @5VDC	
Max. Switching Rate	300 ops/min(no load)	
	20 ops/min(rated load)	
Contact Ratings **	15A@125VAC resistive (AgSnO)	
	10A/6A@250VAC resistive(NO/NC)	
	6A@250VAC resistive T85°C	
Max. Switched Voltage	AC:277V DC:30V	
Max. Switched Current	15A	
Max. Switched Power	2500VA	
Life	Mechanical Life	1×10 <sup>7</sup>
	Electronical Life	1×10 <sup>5</sup>

\*\* Consult factory for specific requirements

#### Operate Data

Operate Time	10msec. Max.	
Release Time	5msec. Max	
Operating Humidity	20-85%RH (Non-condensing)	
Initial Dielectric Strength	Between Coil and Contacts	1,500VAC(50/60HZ) for 1 min.
	Between Open Contacts	750VAC(50/60HZ) for 1 min.
Initial Insulation Resistance	1,000MΩ Min. (500VDC)	
Environmental Temperature	-30°C ~ +70°C	
Shock	Mechanical	100G approximately
	Operational	10G approximately
Vibration	Mechanical	10 to 55Hz,1.5mm double amplitude
	Operational	10 to 55Hz,1.5mm double amplitude
Weight	9.5g approximately	

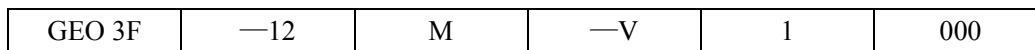
#### Coil Data

Nominal Power	0.36W
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#### Applications:

- Appliance
- Security System
- Emergency Lighting
- Garage Opener Control

#### Ordering Information

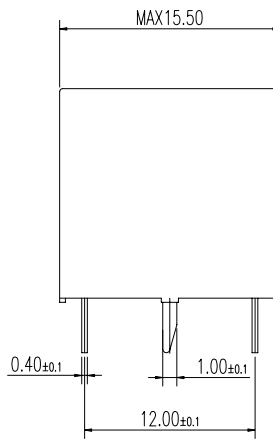
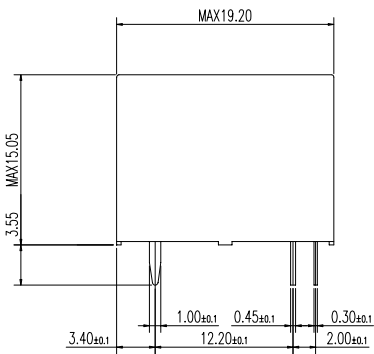


Basic Series	Coil Voltage	Contact Arrangement	Enclosure	Contact Material	Suffix
GEO 3F	03, 05, 06, 09, 12, 24, 48	M= Form A Blank=Form C	V=Vented Plastic Case Flux tight S=Sealed Plastic Case	1=AgNi 2=AgCdO 3=AgSnO	000=Standard Model Other Suffix=Customer Model

**Coil Data(20°C)**

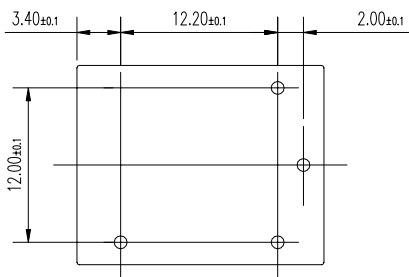
Voltage Code	Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega$ , $\pm 10\%$ )	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Nominal Power (W)	Max. Coil Power
03	3	120.0	25	2.1	0.3	0.36	130% of nominal
05	5	71.4	70	3.5	0.5		
06	6	60.0	100	4.2	0.6		
09	9	40.0	225	6.3	0.9		
12	12	30.0	400	8.4	1.2		
24	24	15.0	1,600	16.8	2.4		
48	48	7.5	6,400	33.6	4.8		

**Outline Dimensions**

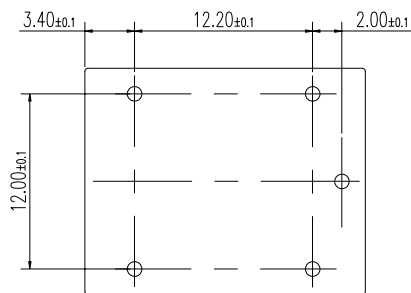


**PC Board Layout(Bottom View)**

Form A

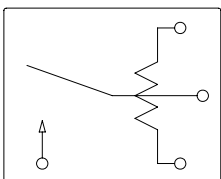


Form C



**Wiring Diagram(Bottom View)**

Form A



Form C

