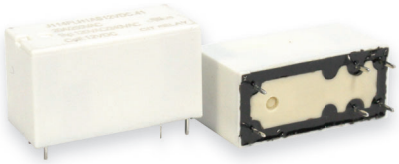


# J114FLH

E197851

29.0 x 12.7 x 16.0 mm

## Features

- 20A Power Relay
- Produced in accordance to IEC 60335-1
- Heavy Contact Load, Strong Shock & Vibration Resistance
- UL/CUL certified

## Contact Data*

| | | | |
|---|---|---|---|
| Contact Arrangement | | 1A = SPST | |
| Contact Rating | NO | 20A @ 250VAC; Resistive, 50K cycles, 105°C<br>16A @ 250VAC; Resistive, 100K cycles, 105°C<br>1hp @ 120/240VAC; 6K cycles, 40°C<br>TV-8 @ 120VAC; 25K cycles, 40°C | .41W coil power |
| | NO | 16A @ 250VAC; Resistive, 100K cycles, 105°C | .25W coil power |
| Contact Resistance | | < 50 milliohms initial | |
| Contact Material | | $AgSnO_2$ | |
| Maximum Switching Power | | 5000VA | |
| Maximum Switching Voltage | | 300VAC | |
| Maximum Switching Current | | 20A | |

## Coil Data*

| Coil Voltage VDC | | Coil Resistance Ω +/- 10% | | Pick Up Voltage VDC (max) 75% of rated voltage | Release Voltage VDC (min) 10% of rated voltage | Coil Power W | Operate Time ms | Release Time ms |
|---|---|---|---|---|---|---|---|---|
| Rated | Max | .41W | .25W | | | | | |
| 5 | 6.5 | 62 | 100 | 3.75 | 0.5 | .41<br>.25 | ≤10 | ≤10 |
| 6 | 7.8 | 90 | 144 | 4.50 | 0.6 | | | |
| 9 | 11.7 | 202 | 324 | 6.75 | .09 | | | |
| 12 | 15.6 | 360 | 576 | 9.00 | 1.2 | | | |
| 24 | 31.2 | 1440 | 2304 | 18.00 | 2.4 | | | |
| 48 | 62.4 | 5760 | 9216 | 36.00 | 4.8 | | | |

## General Data*

| | |
|---|---|
| Electrical Life @ rated load | 100K cycles, average |
| Mechanical Life | 10M cycles, average |
| Insulation Resistance | 100M Ω min. @ 500VDC initial |
| Dielectric Strength, Coil to Contact | 5000V rms min. @ sea level initial |
| Contact to Contact | 1000V rms min. @ sea level initial |
| Shock Resistance | 500m/s² for 11 ms |
| Vibration Resistance | 1.50mm double amplitude 10~55Hz |
| Operating Temperature | -40ºC to +125ºC |
| Storage Temperature | -40ºC to +155ºC |
| Solderability | 260ºC for 5 s |
| Weight | 14g |

* *Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.*

CIT Relay & Switch

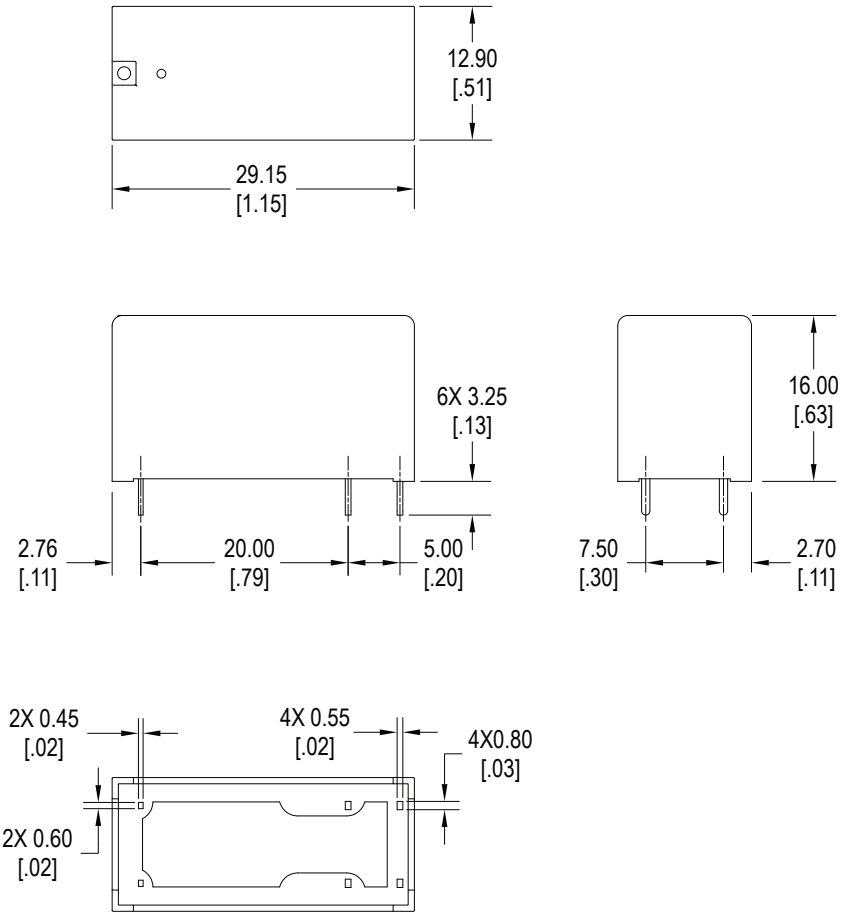
# J114FLH

## Ordering Information

| | | | | | |
|---|---|---|---|---|---|
| 1. Series | J114FLH | 1A | S | 12VDC | .41 |
| J114FLH | | | | | |
| 2. Contact Arrangement<br>1A = SPST | | | | | |
| 3. Sealing Option<br>S = Sealed, standard | | | | | |
| 5. Coil Voltage<br>5VDC 12VDC<br>6VDC 24VDC<br>9VDC 48VDC | | | | | |
| 6. Coil Power<br>.41 = .41W, standard<br>.25 = .25W | | | | | |

## Dimensions

***Units = mm***




## Schematics & PC Layouts

***Bottom Views***