



RoHS Compliant

J115F3

E197852

32.4 (50.0) x 26.8 x 28.1 mm

Features

- UL F class rated standard
- Small size and light weight, low coil power consumption
- Heavy contact load, strong shock and vibration resistance
- UL/CUL, TÜV certified

Contact Data*

| | | |
|-------------------|------|---|
| UL Contact Rating | N.O. | 5A @ 280VAC Ballast 5A @ 280VAC General Purpose 20A @ 240VAC Resistive, 250k cycles, 40C 25A @ 277VAC, Resistive 100k cycles, 40C 40A @ 240VAC Resistive, 40C 30A @ 277VAC General Purpose 2hp @ 250VAC, 40C; 1hp @ 125VAC, 50K cycles, 40C |
| | N.C. | 5A @ 280VAC Ballast 5A @ 280VAC General Purpose 30A @ 240VAC Resistive, 40C 30A @ 30VDC, 40C 20A @ 277VAC General Purpose 1-1/2hp @ 250VAC; 1/4hp @ 125VAC, 50K cycles, 40C |

| | | |
|--------------------|------|-------------------------------------|
| TÜV Contact Rating | N.O. | 40A @ 240VAC; 14VDC 30A @ 277VAC |
| | N.C. | 30A @ 240VAC; 14VDC 20A @ 277VAC |

| | |
|---------------------------|--|
| Contact Arrangement | 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT |
| Contact Resistance | < 30 milliohms initial |
| Contact Material | AgSnO ₂ AgSnO ₂ In ₂ O ₃ |
| Maximum Switching Power | 9600VA, 1120 W |
| Maximum Switching Voltage | 277VAC, 110VDC |
| Maximum Switching Current | 40A |

Coil Data DC Parameters*

| Coil Voltage VDC | | Coil Resistance Ω +/- 10% | | Pick Up Voltage VDC (max) | Release Voltage VDC (min) | Coil Power W | Operate Time ms | Release Time ms |
|------------------|-------|---------------------------|-------|---------------------------|---------------------------|--------------|-----------------|-----------------|
| Rated | Max | .6W | .9W | 75% of rated voltage | 10% of rated voltage | | | |
| 5 | 6.5 | 42 | 28 | 3.75 | .5 | .60 .90 | 15 | 10 |
| 9 | 11.7 | 135 | 90 | 6.75 | .9 | | | |
| 12 | 15.6 | 240 | 160 | 9.00 | 1.2 | | | |
| 24 | 31.2 | 960 | 640 | 18.00 | 2.4 | | | |
| 48 | 62.4 | 3840 | 2560 | 36.00 | 4.8 | | | |
| 110 | 140.3 | 20167 | 13445 | 82.50 | 11.0 | | | |

Coil Data AC Parameters*

| Coil Voltage VAC | | Coil Resistance Ω +/- 10% | Pick Up Voltage VAC (max) | Release Voltage VAC (min) | Coil Power VA | Operate Time ms | Release Time ms |
|------------------|------|--|---------------------------|---------------------------|---------------|-----------------|-----------------|
| Rated | Max | | 75% of rated voltage | 30% of rated voltage | | | |
| 12 | 15.6 | 27 120 2360 3040 13490 15320 20210 | 9.00 | 3.6 | 2VA | 15 | 10 |
| 24 | 31.2 | | 18.00 | 7.2 | | | |
| 110 | 143 | | 82.50 | 33.0 | | | |
| 120 | 156 | | 90.00 | 36.0 | | | |
| 220 | 286 | | 165.00 | 66.0 | | | |
| 240 | 312 | | 180.00 | 72.0 | | | |
| 277 | 360 | | 207.00 | 83.1 | | | |

J115F3

General Data*

| | |
|--------------------------------------|--------------------------------------|
| Electrical Life @ rated load | 100K cycles, average |
| Mechanical Life | 10M cycles, average |
| Insulation Resistance | 1000M Ω min. @ 500VDC initial |
| Dielectric Strength, Coil to Contact | 2500V rms min. @ sea level initial |
| Contact to Contact | 1500V rms min. @ sea level initial |
| Shock Resistance | 200m/s ² for 11 ms |
| Vibration Resistance | 1.50mm double amplitude 10~40Hz |
| Terminal (Copper Alloy) Strength | 10N |
| Operating Temperature | -55°C to +125°C |
| Storage Temperature | -55°C to +155°C |
| Solderability | 260°C for 5 s |
| Weight | 37g |

* 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.

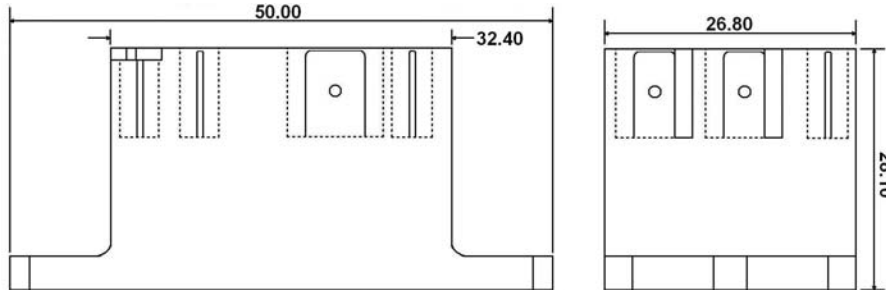
Ordering Information

| | | | | | |
|---|--------|----|-------|---|----|
| 1. Series | J115F3 | 1A | 12VDC | S | .6 |
| J115F3 | | | | | |
| 2. Contact Arrangement | | | | | |
| 1A = SPST N.O. | | | | | |
| 1B = SPST N.C. | | | | | |
| 1C = SPDT | | | | | |
| 3. Profile | | | | | |
| Blank = Standard Profile | | | | | |
| L = Low Profile | | | | | |
| 4. Coil Voltage | | | | | |
| 5VDC | 12VAC | | | | |
| 9VDC | 24VAC | | | | |
| 12VDC | 110VAC | | | | |
| 24VDC | 120VAC | | | | |
| 48VDC | 220VAC | | | | |
| 110VDC | 240VAC | | | | |
| | 277VAC | | | | |
| 5. Sealing Option | | | | | |
| S = Sealed | | | | | |
| 6. Coil Power | | | | | |
| .9 = .9W DC Coil | | | | | |
| .6 = .6W DC Coil | | | | | |
| Blank = 2VA (AC Coil) | | | | | |
| 7. Contact Material | | | | | |
| Blank = AgSnO ₂ | | | | | |
| U = AgSnO ₂ In ₂ O ₃ | | | | | |

J115F3

Dimensions

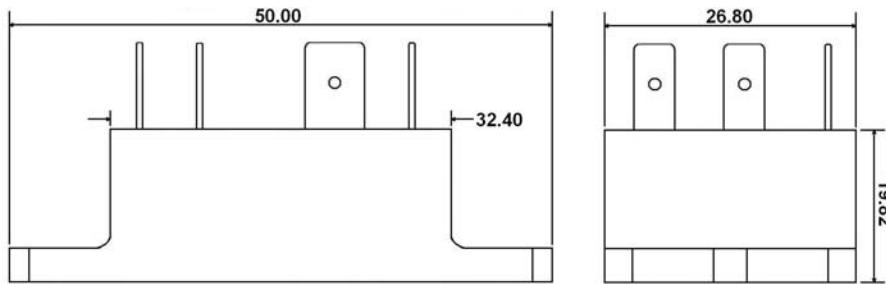
Units = mm



Standard Cover

****Quick Connect Terminals : Contact ~ 6.35 x .81mm (.250" x .032")**

Coil ~ 4.75 x .50mm (.187" x .020") standard



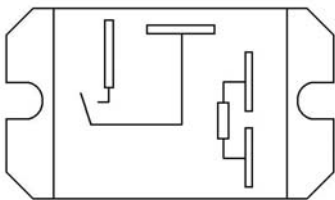
L = Low Profile

****Quick Connect Terminals : Contact ~ 6.35 x .81mm (.250" x .032")**

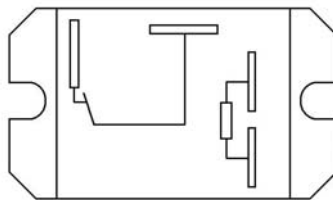
Coil ~ 4.75 x .50mm (.187" x .020") standard

Schematics & PC Layouts

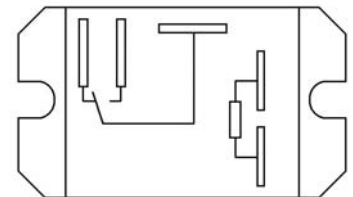
Bottom Views



1A



1B



1C

