

Distributor: Electro-Stock www.electrostock.com Tel: 630-682-1542 Fax: 630-682-1562

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 certified

 **E197852**



26.9 x 31.7 x 20.3 mm

CONTACT DATA

| | |
|---------------------------|---|
| Contact Arrangement | 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT |
| Contact Rating | N.O. 40A @ 240VAC resistive; 30A @ 277VAC General Purpose 2 hp @ 250VAC N.C. 30A @ 240VAC resistive, 30VDC; 20A @ 277VAC General Purpose 1-1/2 hp @ 250VAC |
| Contact Resistance | < 30 milliohms initial |
| Contact Material | AgSnO ₂ , AgSnO ₂ In ₂ O ₃ |
| Maximum Switching Power | 9600VA, 1120W |
| Maximum Switching Voltage | 277VAC, 110VDC |
| Maximum Switching Current | 40A |

COIL DATA

| 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. | 0.6W | 0.9W | 75% of rated voltage | 10% of rated voltage | | | |
| 3 | 3.9 | 15 | 10 | 2.25 | 0.3 | .60 .90 | 15 | 10 |
| 5 | 6.5 | 42 | 28 | 3.75 | 0.5 | | | |
| 6 | 7.8 | 60 | 40 | 4.50 | 0.6 | | | |
| 9 | 11.7 | 135 | 90 | 6.75 | 0.9 | | | |
| 12 | 15.6 | 240 | 160 | 9.00 | 1.2 | | | |
| 15 | 19.5 | 375 | 250 | 10.25 | 1.5 | | | |
| 18 | 23.4 | 540 | 360 | 13.50 | 1.8 | | | |
| 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 | | | |

AC COIL 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 | 9.0 | 3.6 | 2VA | 15 | 10 |
| 24 | 31.2 | | 18.0 | 7.2 | | | |
| 110 | 143 | | 82.5 | 33 | | | |
| 120 | 156 | | 90 | 36 | | | |
| 220 | 286 | | 165 | 66 | | | |
| 240 | 312 | | 180 | 72 | | | |
| 277 | 360 | | 207 | 83.1 | | | |

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GENERAL DATA

| | |
|--------------------------------------|--|
| Electrical Life @ rated load | 100K cycles, typical |
| Mechanical Life | 10M cycles, typical |
| Insulation Resistance | 100M Ω min @ 500VDC |
| Dielectric Strength, Coil to Contact | 4000V rms min. @ sea level (With Pin 6 removed) 2500V rms min. @ sea level (With Pin 6) |
| Contact to Contact | 1500V rms min. @ sea level |
| Shock Resistance | 200m/s ² for 11ms |
| 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 | 230 °C \pm 2 °C for 10 \pm 0.5s |
| Weight | 30g, 27g (no cover) |

ORDERING INFORMATION

| | | | | | | |
|--------------------------------|---|----|-------|---|---|---|
| 1. Series: | WJ115F1 | 1C | 12VDC | S | 6 | 6 |
| WJ115F1 | | | | | | |
| 2. Contact Arrangement: | <ul style="list-style-type: none"> 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT | | | | | |
| 4. Coil Voltage: | <ul style="list-style-type: none"> 3VDC 5VDC 6VDC 9VDC 12VDC 15VDC 18VDC 24VDC 48VDC 110VDC 12VAC 24VAC 110VAC 120VAC 220VAC 240VAC 277VAC | | | | | |
| 5. Sealing Options: | <ul style="list-style-type: none"> S = Sealed (standard) N = No cover | | | | | |
| 6. Option: | <ul style="list-style-type: none"> None = Pin 6 Included 6 = Pin 6 Removed | | | | | |
| 7. Coil Power: | <ul style="list-style-type: none"> .9 = .9W .6 = .6W Blank = 2VA (AC Coil) | | | | | |
| 8. Contact Material: | <ul style="list-style-type: none"> Blank = AgSnO₂ U = AgSnO₂In₂O₃ | | | | | |

DIMENSIONS (Units = mm)



S = SEALED



N = NO COVER

SCHEMATICS & PC LAYOUTS (BOTTOM VIEWS)



1A



1B



1C



WITH PIN 6



WITHOUT PIN 6