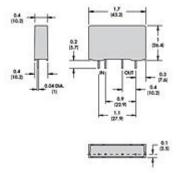
Magnecraft 191 Waukegan Rd, Ste 206 Northfield, IL 60093-2743 Phone: (847)441-2526 Fax: (847)441-2522 Email: info@magnecraft.com

### Item # 70S2-04-B-03-V, 70S2 Series Solid State Relays/3, 5 Amp, V Style

### 70S2 Series Solid State Relays/3, 5 Amp, V Style

The 70S2 Series relays have excellent thermal performance and are designed for medium-power loads. Its compact size makes it ideal for designs where space is limited. The design incorporates a triac output for AC loads and MOSFETs for DC loads. Optical isolation protects the control from transients. The 70S2 is available in a combination of screw, fast-on or PCB terminals.





#### <u>SPECIFICATIONS</u> <u>OUTPUT CHARACTERISTICS</u> <u>INPUT CHARACTERISTICS</u> <u>PERFORMANCE</u> <u>CHARACTERISTICS</u> <u>ENVIRONMENT</u> <u>MISCELLANEOUS CHARACTERISTICS</u>

#### **SPECIFICATIONS**

Component Type	Solid State
Mounting Type	PCB Mount
Rated Current Load	3 A
Contact Configuration	SPST-NO
Control Voltage	DC
Load Type	DC
Input Voltage Range	3 to 32 VDC
Output Voltage Range	24 to 140 VAC

## OUTPUT CHARACTERISTICS

Switching Device	Triac
Current Rating	3 A
Switching Voltage	24 to 140 VAC
Maximum Rate of Rise Off State Voltage [dv/dt]	300 V/us
Min. Load Current to Maintain On	75 / 50 mA
Non-Repetitive Surge Current (1 cycle)	60 / 300 A
Max. Off State Leakage Current [rms]	10-Jun mA
Minimum Peak Blocking Voltage	400 VAC
Typical On State Voltage Drop [rms]	1.6 VAC

### INPUT CHARACTERISTICS

Voltage Range	3 to 32 VDC
Must Release Voltage	1 VDC
Typical Input Current at 5VDC or 240VAC	1 to 19 mA
Maximum Reverse Control Voltage	3 VDC

# PERFORMANCE CHARACTERISTICS

Electrical Life (UL508), Operations at Rated Current (Resistive)	100000
Mechanical Life, Unpowered	1000000
Operating Time (Response Time) - On	8.3 ms μs
Operating Time (Response Time) - Off	8.3 ms μs
Dielectric Strength, Terminals to Chassis	4000 VAC

### ENVIRONMENT

Product Certifications, Standard Version	CSA TUV UR
Ambient Air Temperature around the Device - Storage	-40 to +125 °C
Ambient Air Temperature around the Device - Operation	-40 to +100 °C

# MISCELLANEOUS CHARACTERISTICS

Thermal Resistance (Junction to Case)

0.5 °C/W