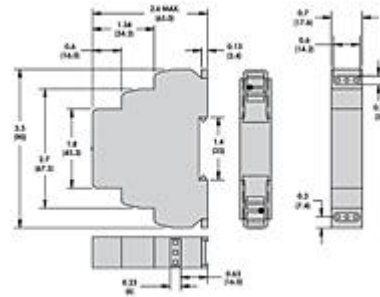


## Magnecraft

### Item # 831VS-120A, 831 Voltage Sensing Relay/SPDT 15 Amp Rating

#### 831 Voltage Sensing Relay/SPDT 15 Amp Rating

The 831 relay is a single phase AC voltage sensing device that is capable of monitoring and reacting to over and under voltage conditions. It is designed to be wired across terminals A1 and A2 with the voltage being monitored. Two LED lamps indicate when input voltage is present (Green LED) and when output is energized (Red LED). The Umax dial sets the upper trip-point for the voltage sensor. The Umin dial is a percentage of the Umax dial and is used to set the lower trip-point for the voltage sensor. The timing dial delays the transfer of the contacts, from 0 to 10 seconds, when a set point has been violated.



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#### SPECIFICATIONS

Type of Device	Voltage Sensor
Input Voltage Range	120 VAC
Timing Range	0.1s to 10s
Sensing Voltage Range	Upper: 80...150 VAC, Lower: 30...99%
Rated Current Load	15 A

#### OUTPUT CHARACTERISTICS

Contact Configuration	SPDT
Contact Materials	Silver Alloy
Current Rating at 240 VAC, 24 VDC	15 A

Switching Voltage	24 VDC 240 VAC, 50/60 Hz
Switching Voltage [hp]	1 hp at 240 VAC 1/2 hp at 120 VAC
Switching Voltage (Pilot Duty)	B300
Indication (LED)	Red

## INPUT CHARACTERISTICS

Absolute Input Voltage Maximum	200 VAC
Upper Sensing Voltage Range	80 to 150 VAC
Lower Sensing Voltage Range	30 to 99 %
Maximum Consumption AC	1.2 VA
Maximum Consumption DC	1.2 W
Indication (LED)	Green
Functions Available	A - On Delay (Power On)
Time Scales	1
Time Ranges Available	0 to 10 s min H d
Tolerance, Mechanical Setting	5 %
Repeatability, Constant Voltage and Temperature	1 %
Operate Time, Maximum	25 ms
Reset Time, Maximum	20 ms

## PERFORMANCE CHARACTERISTICS

Electrical Life (UL508), Operations at Rated Current (Resistive)	100000
Mechanical Life, Unpowered	10000000
Dielectric Strength - Input to Contacts	2500 VAC
Dielectric Strength - Between Open Contacts	1000 VAC
Terminal Wire Capacity	14 AWG 2.1 mm <sup>2</sup>
Terminal Torque (Maximum)	7.1 in lb

## ENVIRONMENT

Product Certifications, Standard Version	CE UL
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Ambient Air Temperature around the Device - Operation	-20 to +55 °C
Ambient Air Temperature around the Device - Storage	-30 to +70 °C
Degree of Protection	IP 20

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