



# Zero Speed Switch

# ZVR/S

## Specifications

### Electrical

**Supply Voltage:** 24 to 240 VAC,  $\pm 10\%$ , 2W

#### Sense Ranges:

DC Sensitivity: 35mV to 430mV

AC Sensitivity:

38mV @  $\leq 6\text{Hz}$ , Typ.

380mV @  $\geq 60\text{Hz}$ , Typ.

**Hysteresis:** 5% of set point, AC/DC typical

**Signal Impedance:** 100K $\Omega$  minimum

#### Time Delay:

1 sec. Fixed or 0.5-40 sec. Adjustable

**60 Hz Rejection:** 10 times DC Sensitivity at most sensitive setting.

**Frequency:** DC to 400 Hz

**Max. Continuous Sense Voltage:**

600 Volts

### Output Rating:

Resistive: 10 Amps@240VAC

V-A Rating: 180VA Max.

Rating Code: C300

### Physical

**Mounting:** Din Rail or Surface,

#6 Screw

**Termination:** Plug-In Terminal Block

**Packaging:** Vertical Case

**Weight:** 8 Oz.

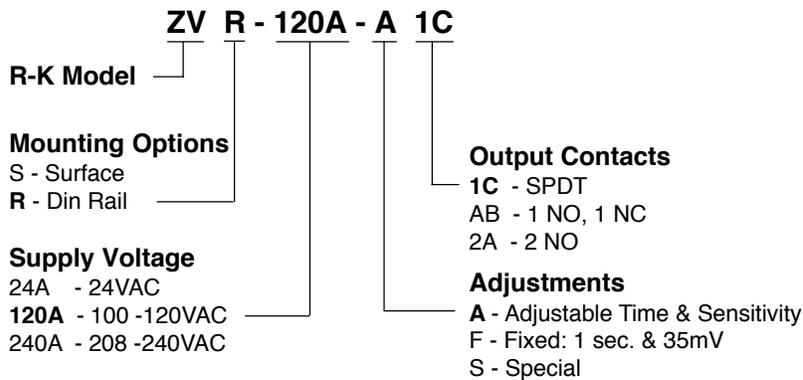
### Ambient Temperatures

**Operating:** 0°C to 65°C

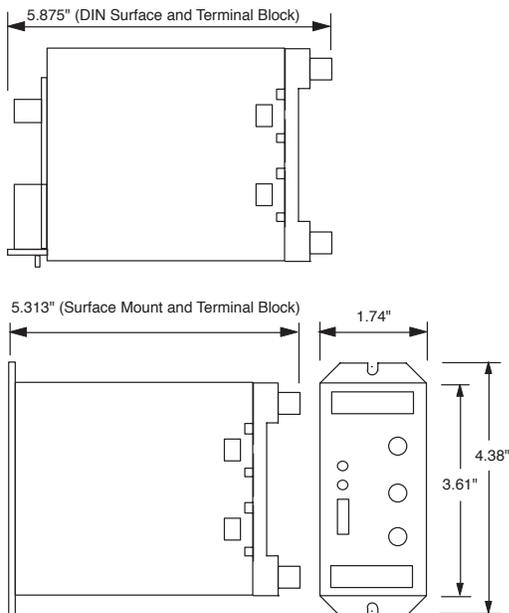
**Storage:** -40°C to 85°C



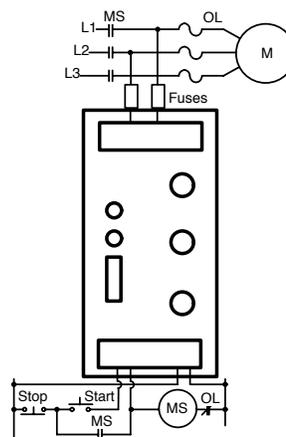
## Ordering Information



## Dimensions



## Connections



- 35mV to 430mV AC/DC
- 600V Overvoltage
- 10 Amp, SPDT
- Noise Filter
- Adj. Sensitivity
- Adj. Time Delay
- Normal or Reverse Operation
- Din or Surface Mount
- Plug-In Terminal Block



## Operation

An AC supply voltage must be provided to the ZV continuously. While the ZV will drop-out and pick-up based on an adjustable millivolt set point, the signal circuit will accept up to 600VAC. With no voltage on the signal terminals, the internal relay is energized, transferring the output contacts. When the voltage exceeds the set point, the relay will de-energize. When used on Zero Speed applications, a loss of input voltage will cause the relay to remain de-energized as if the motor were still running. Reverse operation is available. For DC current sensing, select a 100mV shunt of the correct current rating and connect the shunt in series with the load and in parallel with the ZV's signal terminals.

