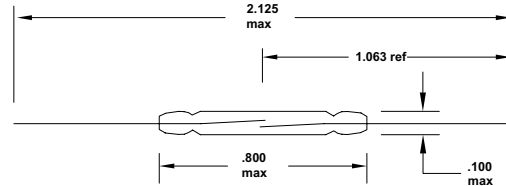


Application – General purpose reed switch with Rhodium contacts. This switch has been designed to give superior life switching relatively heavy loads in a 0.8-inch long glass package. This switch has a higher breakdown voltage compared to our GR-560, and is better suited to handle normal 120 VAC loads. This switch also has the ability to maintain low contact resistance over life switching light duty logic level loads. Normal applications include liquid level sensors, security systems, reed relays, proximity sensors and counting devices.

### Physical Characteristics

Glass Diameter (Max)	0.100in(2.5mm)
Glass length (Max)	0.800in(20.3mm)
Lead Dia.(Nominal)	0.022in(0.6mm)
Overall length (Max)	2.125in(54.0mm)



### Electrical Characteristics

Contact Arrangement	Form A (SPST), Center Gap
Contact Material	Rhodium
(1) Power Rating	10 VA Maximum
Switching Current (Max)	1.0Amp. DC, 1.0 Amp. AC
Carry Current (Max)	1.5Amp. DC, 1.5Amp. AC
(4) Switching Voltage(Max)	100 VDC, 150 VAC
(2) Breakdown Voltage (Min.@20AT)	250 Volts DC
(3) Contact resistance	100 Milliohms
Insulation Resistance(Min)	10 <sup>12</sup> ohms
Contact capacitance (Pf Max)	0.2Pf

### Operation Characteristics

Magnetic Sensitivity (Range - pull in)	10 to 60 Ampere Turns
Magnetic Sensitivity (Range - Drop Out)	(see chart)
Operate Time, including bounce (typ.)	0.8Milliseconds
Release Time (typ.)	0.1Milliseconds
Resonant Frequency (typ.)	2.2KHZ
Vibration, 10-2,000HZ(G's Max)	40G
Shock, 11 –ms. 1/2 Sine wave (G's Max)	100G
Operating Temperature	-40°C to +125°C
Storage temperature	-50°C to +155°C

### Notes:

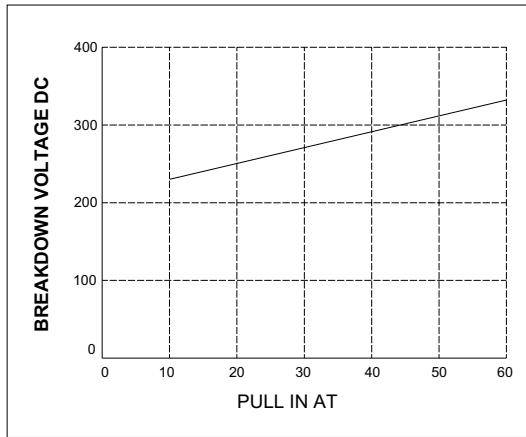
- 1) The specification for VA rating may sometimes be exceeded for less sensitive (higher AT) switches, and should be decreased for very sensitive (lower AT) switches. Standex Electronics will run life tests specific to a customers load upon request.
- 2) Breakdown voltage is measured in the presence of a radioactive ionizing source. Switch leakage current is limited to 100 microamperes.
- 3) Contact resistance measurements are made at 10ma from a 1volt source, with 50% overdrive, using a 4-wire (Kelvin) measuring system. Contact probes are located on 1.7" centers.
- 4) When switching 150 VAC please contact a Standex application engineer

### Minimum Switching Life with Standard Test Loads, using 20AT switches

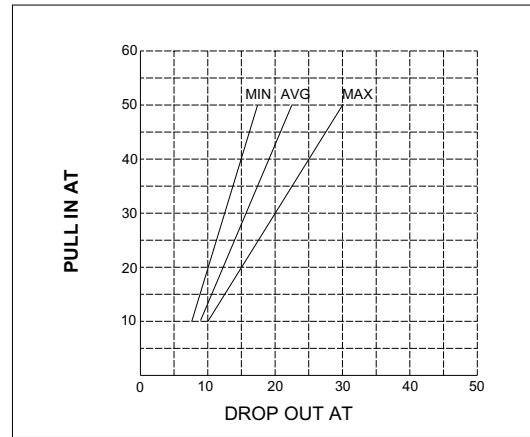
Voltage	5VDC	10VDC	12VDC	24VDC	100VDC	125VDC	150VDC
Current	2mA	1Amp	10mA	10mA	100mA	80mA	60mA
Life	1000×10 <sup>6</sup>	2.0×10 <sup>6</sup>	100×10 <sup>6</sup>	8×10 <sup>6</sup>	2.0×10 <sup>6</sup>	2.0×10 <sup>6</sup>	1.0×10 <sup>6</sup>

Note: End of life is defined as contact resistance exceeding one ohm and/or failure to operate.

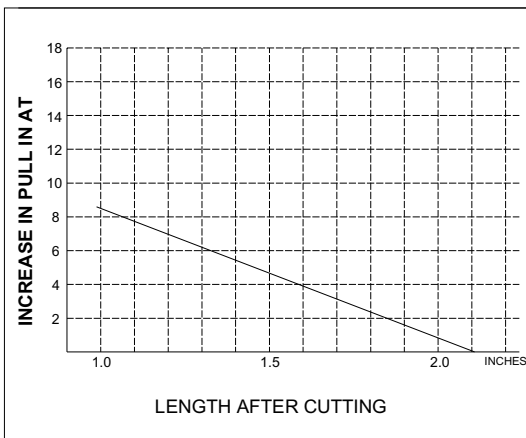
Breakdown Voltage Plotted Against Pull-In Ampere Turns



Pull-In Ampere Turns Plotted Against Drop-out Ampere Turns



Change In Pull-In Ampere Turns After Switch Lead Cutting



Change In Drop-Out Ampere After Switch lead Cutting

