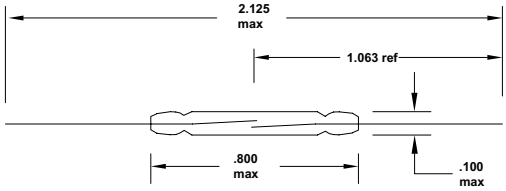
Application – General purpose power reed switch with Rhodium contacts.This switch switch has been designed to give superior life switching relatively heavy loads in a 0.8-inch long glass package. Applications include test equipment, instrumentation ,liquid level sensing ,and incandescent lamp switching.



Physical Characteristics

Glass Diameter(Max)	0.100in(2.5mm)
Glass length (Max)	0.800in(20.3mm)
Lead Dia .(Nominal)	0.026in(0.7mm)
Overall length (Max)	2.125in(54.0mm)

Electrical Characteristics

Contact Arrangement	Form A(SPST),Center Gap
Contact Material	Rhodium
(1) Power Rating	50 VA Maximum
Switching Current (Max)	1.5Amp. DC, 1.5 Amp. AC
Carry Current (Max)	2.5Amp. DC, 2.5Amp. AC
(4) Switching Voltage(Max)	200 VDC, 150 VAC
(2) Breakdown Voltage (Min.@20AT)	250 Volts DC
(3) Contact resistance	100 Milliohms
Insulation Resistance(Min)	10^{12} ohms
Contact capacitance (Pf Max)	0.3Pf

Operation Characteristics

Magnetic Sensitivity (Range - pull in)	20 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)	30G
Shock, 11 –ms. 1/2 Sine wave (G's Max)	100G
Operating Temperature	-40℃ to +125℃
Storage temperature	-50℃ to +155℃

Notes:

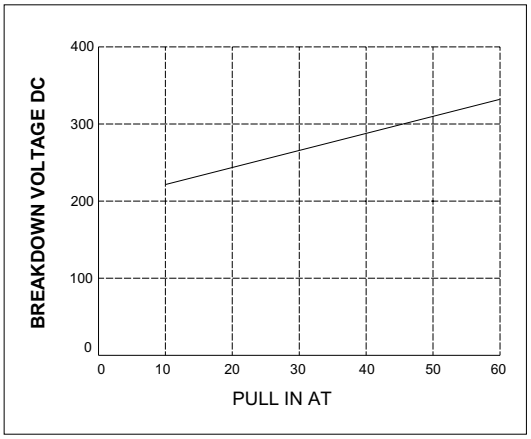
1) The specification for VA rating may sometimes be exceeded for less sensitive (higher AT) switches, and should be decreased for very sensitive (lower AT) switches. Standex Electronics will run life tests specific to a customers load upon request.
2) Breakdown voltage is measured in the presence of 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

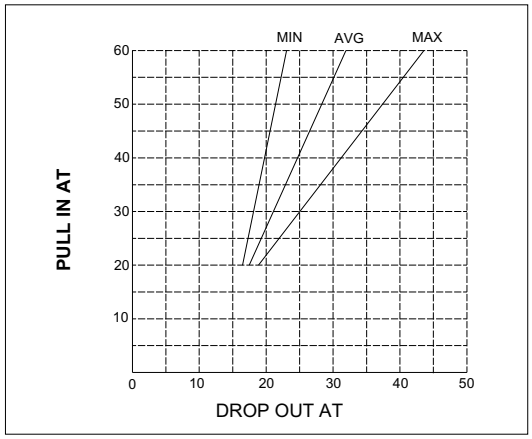
Voltage	5VDC	10VDC	12VDC	12VDC	24VDC	50VDC	100VDC	150VDC
Current	2mA	1Amp	10mA	3Amp	10mA	1Amp	100mA	200mA
Life	1×10^{9}	3×10^{6}	500×10^{6}	50×10^{3}	10×10^{6}	3×10^{6}	3×10^{6}	0.5×10^{6}

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

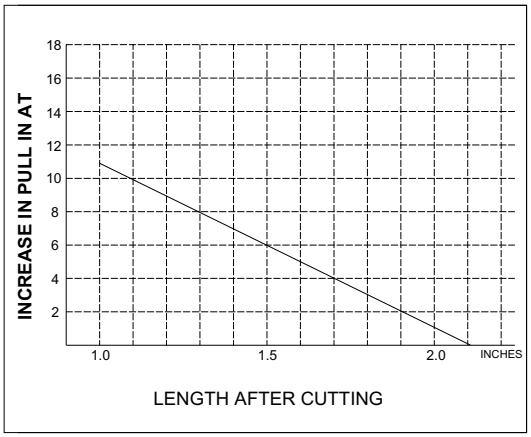
Breakdown Voltage Plotted
Against Pull-In Ampere Turns



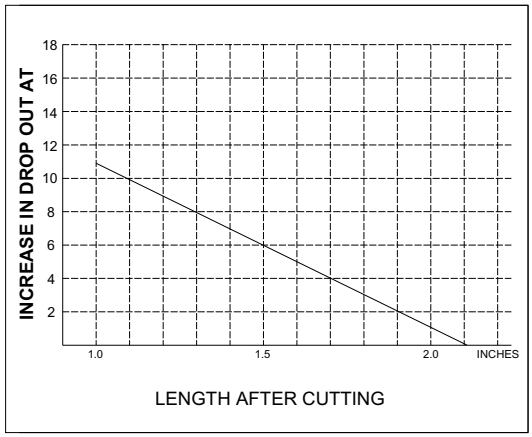
Pull-In Ampere Turns Plotted
Against Drop-out Ampere Turns



Change In Pull-In Ampere Turns
After Switch Lead Cutting



Change In Drop-Out Ampere
After Switch lead Cutting



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