

DRS-50 50.8mm High Power Reed Switch





Description

The DRS-50 Reed Switch is a standard, normally open switch with a 50.80mm long x 5.25mm diameter (2.000" x .207") glass envelope, capable of high voltage and power switching up to 400Vdc at 2mA. Will carry 6A and switch up to 100W/VA. It has high insulation resistance of 10^{10} ohms minimum and contact resistance of less than 100 milli-ohms.

Features

- Normally open switch
- Capable of switching 400Vdc or 3.0A at up to 100W
- Minimum voltage breakdown 600Vdc
- Available sensitivity range 42-83 AT

Agency Approvals

Agency	Agency File Number	Ampere-Turns Range
c FL °us	E47258 E471070	42-83 AT
€x>	DEMKO 14 ATEX 1393U	42-83 AT

Note: Contact Littelfuse for specific agency approval ratings.

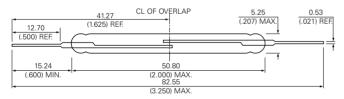
Benefits

 Hermetically sealed switch contacts are not affected by and have no effect on their external environment

- Capable of switching European mains voltage
- Zero operating power required for contact closure

Dimensions

Dimensions in mm (inch)



Applications

- Security
- · Limit switching
- Industrial applications
- White Goods

Switch Type

Contact Form	A (SPST-NO)
Materials	Body: Glass Leads: Tin-plated Ni-Fe wire

Note: SPST-NO = Single-pole, single-throw, normally open

Electrical Ratings

Contact Rating ¹		W/VA - max.	100
Voltage ³	Switching ² Breakdown ⁴	Vdc - max. Vac - max. Vdc - min.	400 280 600
Current ³	Switching ² Carry	Adc - max. Aac - max. Adc - max.	3.0 2.1 6.0
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.100 10 ¹⁰
Capacitance	Contact	pF - typ.	0.6
Temperature	Operating Storage ⁵	°C °C	-40 to +125 -65 to +125

Notes

- 1. Contact rating Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.
- 2. When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A and AN107 for details.
- 3. Electrical Load Life Expectancy Contact Littelfuse with voltage, current values along with type of load.
- 4. Breakdown Voltage per MIL-STD-202, Method 301.
- 5. Storage Temperature Long time exposure at elevated temperature may degrade solderability of the leads

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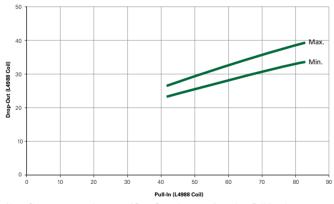
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Product Characteristics

Operating Characteristics						
Operate Time ¹		4.5ms - max.				
Release Time ¹		2.5ms - max.				
Shock ²	11ms 1/2 sine wave	100G - max.				
Vibration ²	50-2000 Hertz	30G - max.				
Resonant Frequency	Hz - typ.	850Hz - typ.				
Magnetic Characteristics						
Pull-In Range ³	Ampere Turns	42-83				
Rating Sensitivity ⁴	Ampere Turns	60				
Test Coil		L4988				

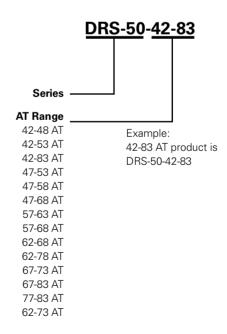
- Notes: 1. Operate (including bounce)/Release Time per EIA/NARM RS-421-A,diode suppressed coil (Coil IV).
- 2. Shock and Vibration per EIA/NARM RS-421-A and MIL-STD-202.
- 3. Pull-In Range Contact Littelfuse for narrower AT ranges available.
- 4. Rating Sensitivity The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.
- 5. Custom modifications of forming and/or cutting of reed switches are available. Please contact Littelfuse.

Drop-Out vs. Pull-In Chart



Note: Chart represents the range of Drop-Out, min to max for a given Pull-In value.

Part Numbering System



Note: These AT values are the before-modification values of the bare reed switch.

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Surface Mount Reed Switches High Power > MASM-14

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
Bulk	Bulk	1000	N/A	N/A

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