

HA15-2 15.2mm Sub-miniature HV Reed Switch



 Minimum voltage breakdown 400Vdc (17-23AT) and 450Vdc

Available sensitivity range

· Capable of switching European

· Zero operating power required for

European Mains Voltage Switching

(22+ AT)

17-33 AT

mains voltage

contact closure

• Office Equipment

Light Inductive Loads



Agency Approvals

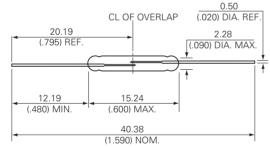
Agency	Agency File Number	Ampere-Turns Range
c FN us	E47258 E471070	17-33 AT

Note: Contact Littelfuse for specific agency approval ratings.

Dimensions

Dimensions in mm (inch)

Electrical Ratings



Description

The HA15-2 Reed Switch is a sub-miniature, normally open switch with a 15.24mm long x 2.28mm diameter (0.600" x 0.090") glass envelope and capable of high voltage switching of 265Vac at 10VA. It has high insulation resistance of 10^{10} ohms minimum and contact resistance less than 100 milli-ohms. It can handle light inductive loads with no suppression circuitry and switch European mains voltage.

Features

- Sub-miniature normally open switch
- Capable of switching 100-265Vac or 0.3A up to 20VA loads outside of this window is rated 10W max (see Electrical Ratings)

Benefits

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

Applications

- Reed Relays
- Security
- Limit Switching

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

Sensitivity ⁶			17-23	22+	
Contact Rating ¹		W/VA - max.	20W for 100-265 VAC loads 10W for all other loads		
Voltage ³	Switching ² Breakdown ⁴	Vdc - max. Vac - max. Vdc - min.	200 265 rms 400	200 265 rms 450	
Current ³	Switching ² Carry	Adc - max. Aac - max. Adc - max.	0.40 0.30 1.4	0.50 0.35 1.5	
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.100 10 ¹⁰	0.100 10 ¹⁰	
Capacitance	Contact	pF - typ.	0.2	0.2	
Temperature	Operating Storage ⁵	0° 0°	-20 to +125 -65 to +125	-20 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 and current values along with type of load.

4. Breakdown Voltage - Per MIL-STD-202, Method 301.

6. Rating Sensitivity - The value at which contact ratings and operating characteristics are determined. Derating may be required for lower values.

^{5.} Storage Temperature - Long time exposure at elevated temperature may degrade solderability of the lead.



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Product Characteristics

Operating Characteristics						
Operate Time 1		0.6ms - max.				
Release Time ¹		0.2ms - max.				
Shock ²	11ms 1/2 sine wave	100G - max.				
Vibration ²	50-2000 Hertz	30G - max.				
Resonant Frequency		4.0kHz - typ.				
Magnetic Characteristics						
Pull-In Range ³	Ampere Turns	17-33				
Rating Sensitivity ⁴	Ampere Turns	17 and 23				
Test Coil		L4989				
Drop-Out	Ampere-Turns - min.	5				

Notes:

1. Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).

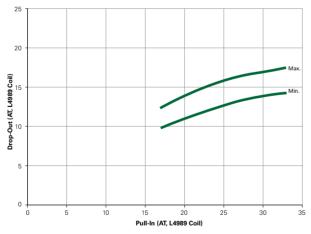
2. Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.

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.

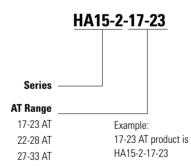
5. Custom modifications of forming and/or cutting of reed switches are available. Please contact Littelfuse.

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.

Packaging

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

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