

SPECIFICATION FOR VOLTAGE ACTUATED SWITCH

8/30/99

Model number

VAS-DM4S-NO-120(80/100)-400/1.2-60Hz

Absolute stress above which the unit may be damaged.	Min.		Max.	unit
Ambient temperature	-40		80	°C
Measured voltage			600	V-rms
Voltage across output "contacts"			400	V-peak
Instantaneous current in output "contacts"			5	A-peak
Shock (any axis)			2500	g
Range over which calibration is guaranteed.	Min.	Typ.	Max.	unit
Ambient temperature	-5		60	°C
Frequency	59		61	Hz
Total harmonic distortion of sensed voltage			3.0	percent
Vibration (1Hz-10kHz)			200	g
Operating parameters.	Min.	Typ.	Max.	unit
Thermal coefficient	0.135	0.140	0.145	%/°C
Isolation		2500.0		V-rms
Output impedance (Note 1)		1.0		
Input current		1530.0		µA-rms
Rising switch voltage	98.0	99.0	100.0	V-rms
Falling switch voltage	79.0	80.0	81.0	V-rms
Voltage across open output "contacts"			400.0	V-peak, + or -
Continuous current thru closed output "contacts"			1.0	A-rms
Turn on delay	245.0	250.0	255.0	msec
Turn off delay, standard unit	65.0	70.0	75.0	msec
Physical	Min.	Typ.	Max.	unit
Depth		2.200		inch
Height		1.430		inch
Width		2.000		inch
Weight		93		grams
Flammability		Self extinguishing		

Approvals

UL File: E159238, Vol. 1 Type: R (Note 2)

Note 1

The output impedance of closed contacts is modeled as a silicon diode (0.6 volts) in series with the resistance shown and is independent of polarity.

Note 2

UL listing is for the voltage sensor on which the switch is based. The switch is not listed as a unit.

Note 3

Suddenly reduce the input excitation from 10% over that required to keep the switch closed to zero. The delay to turn off shall be within the limits shown.

Note4

Switches are calibrated with 1 M ± 2% //175 pf. instrumentation capacity.

Smith Research & Technology, Inc.



3109 N. Cascade Ave., Bldg. #201
 Colorado Springs, CO 80907-5190
 719 634 2259, FAX 719 634 2601

Inductive AC voltage and current sensors