

Specifications

RoHS Compliant

Model Name: USM-115xxH

Description: Axial / High Breakdown Voltage

Contact Form: 1 Form A

Coil Spec		USM-11505H			USM-11512H			USM-11524H			
Test Parameters	Test Conditions	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Units
Coil Voltage			5.0			12.0			24.0		VDC
Coil Resistance	+/-10% 20°C		60			200			800		Ω
Must Operate	at 20°C			3.75			8.8			17.6	VDC
Must Release	at 20°C	0.7			1.2			2.4			VDC
Electrical											
Test Parameters		Test Conditions						Min	Nom	Max	Units
Switching Voltage		DC/Peak AC Resist								3500	V
Switching Current		DC/Peak AC Resist								3.0	A
Carry Current	at 30 °C	DC/Peak AC Resist								4.0	A
Contact Rating		DC/Peak AC Resist								50	W
Life Expectancy	at 20 °C	at 1V 10mA						100			×10 ⁶ Cycle
Contact Resistance		Max Initial Operate Voltage								200	mΩ
Contact Resistance Stability		Max Initial Operate Voltage								20	mΩ
Insulation Resistance	Between Contacts	at 100 V 20 °C 65 %Rh						10 ¹⁰			Ω
	Contacts to Coil							10 ¹⁰			Ω
Dielectric Strength (Static)		Between Contacts		DC		5000				V	
		Contacts to Coil		DC		5000				V	
Operate Time	(Including Bounce)	100 Hz		at Nominal Coil Voltage						4.0	ms
Release Time		Square Wave		Diode Suppression						3.0	ms
Environmental											
Operate Temperature								-20		60	°C
Storage Temperature								-40		85	°C
Operate Humidity								25		75	%Rh
Vibration		2000 Hz								20	G's
Shock										50	G's
Measurement Reference Condition		Temperature				15		35		°C	
		Humidity				25		75		%Rh	
		Atmospheric Pressure				860		1060		hPa	

Dimensions						CHAR	H.Yano		
A-S1009						CHK	S.Terao		
Note							APPR	J.Morinaga	
							ISSUED	2012/3/12	
REV	2	Correction of errors schematic.						CHAR	H.Yano
								APPR	J.Morinaga
								DATE	2012/6/18

