

Specifications

RoHS Compliant

Model Name: USM-215xxH

Description: Axial / High Breakdown Voltage

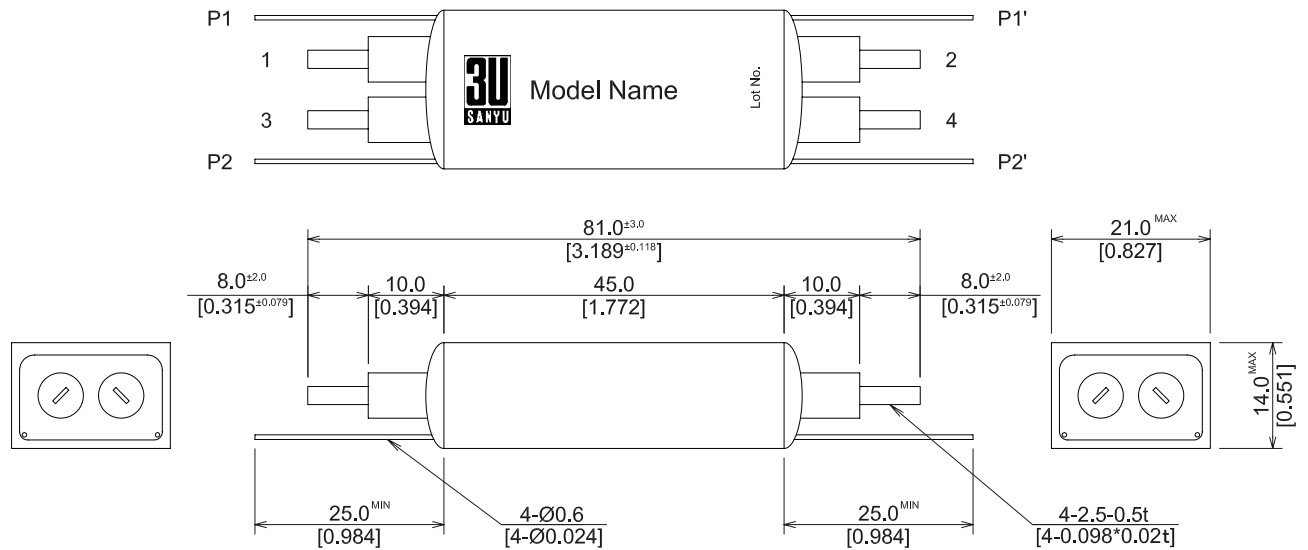
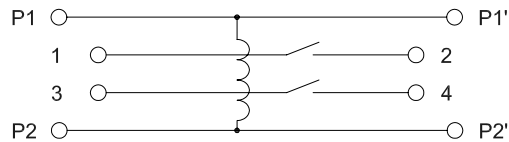
Contact Form: 2 Form A

Coil Spec		USM-21505H			USM-21512H			USM-21524H			
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		45			160			600		Ω
Must Operate	at 20°C			3.75			8.8			17.6	VDC
Must Release	at 20°C	0.5			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-S1010						CHK	S.Terao		
Note							APPR	J.Morinaga	
							ISSUED	2012/3/12	
REV	3	Changed must release voltage (5V:0.7→0.5V)						CHAR	T.Nishi
								APPR	S.Terao
								DATE	2014/4/10

DIMENSIONS

All Dimensions are measured in millimeters [inch]

SCHEMATIC <TOP VIEW>2
112. 6.18
12. 3.12Correction of errors schematic
New enrollmentH.Yano
H.YanoJ.Morinaga
J.Morinaga

ISSUED DATE DESCRIPTION CHAR APPD

SCALE

MODEL

USM-2A series

REVISIONS

n/s

TITLE

DIMENSIONS

DRAFTING

ENGINEER

CHAR

CHK

APPD

UNIT

H.Yano

H.Yano

H.Yano

S.Terao

J.Morinaga

mm
[inch]

SANYU SWITCH CO., LTD.