



Relay, RM4UA33F

URL: <https://www.sxplc.com/relay-rm4ua33f>

Product data sheet

Main	Range of Product	Harmony Relay
	Relay Type	Voltage measurement relay
	Product or Component Type	Industrial measurement and control relays
	Relay name	RM4U
	Relay monitored parameters	Overvoltage or undervoltage detection
	time delay	Adjustable 0.05...30 s
	Contacts type and composition	2 C/O

Complementary	Maximum switching voltage	440 V AC
	operating voltage tolerance	0.85...1.1 U _c
	Power consumption in VA	1.9...3.3 VA AC
	Output contacts	2 C/O
	Hysteresis	5...30 % adjustable voltage threshold setting
	Internal input resistance	1111000 Ohm
		668000 Ohm
		11110000 Ohm
	Permissible continuous overload	550 V
400 V		
Permissible non repetitive overload	500 A ≤ 1 s	

	550 A \leq 1 s
Switching threshold drift	\leq 0.06 % per degree centigrade depending on the ambient air temperature \leq 0.5 % within the supply voltage range (0.85...1.1)
Setting accuracy of time delay	10 P
Time delay drift	\leq 0.07 % per degree centigrade depending on the operational temperature \leq 0.5 % within the supply voltage range (0.85...1.1)
Quality labels	CE
Setting accuracy of the switching threshold	+/-5 %
Operating position	Any position without derating
Overvoltage category	III IEC 60664-1
[Ui] rated insulation voltage	500 V IEC
Supply disconnection value	$>$ 0.1 U _c
Connections - terminals	Screw terminals, 2 x 1.5 mm ² flexible with cable end Screw terminals, 2 x 2.5 mm ² flexible without cable end
[I _e] rated operational current	2 A 158 °F (70 °C) 24 V DC-13 IEC 60947-5-1/1995 2 A 158 °F (70 °C) 24 V DC-13 VDE 0660 3 A 158 °F (70 °C) 115 V AC-15 IEC 60947-5-1/1995 3 A 158 °F (70 °C) 115 V AC-15 VDE 0660 3 A 158 °F (70 °C) 24 V AC-15 IEC 60947-5-1/1995 3 A 158 °F (70 °C) 24 V AC-15 VDE 0660 3 A 158 °F (70 °C) 250 V AC-15 IEC 60947-5-1/1995 3 A 158 °F (70 °C) 250 V AC-15 VDE 0660 0.1 A 158 °F (70 °C) 250 V DC-13 IEC 60947-5-1/1995 0.1 A 158 °F (70 °C) 250 V DC-13 VDE 0660 0.3 A 158 °F (70 °C) 115 V DC-13 IEC 60947-5-1/1995 0.3 A 158 °F (70 °C) 115 V DC-13 VDE 0660
Tightening torque	5.31...9.74 lbf.in (0.6...1.1 N.m)

Mechanical durability	30000000 cycles
[Ith] conventional free air thermal current	8 A
Switching capacity in mA	10 mA 12 V
Contacts material	90/10 silver nickel contacts
Number of cables	2
Width	0.89 in (22.5 mm)
Height	3.07 in (78 mm)
Depth	3.15 in (80 mm)
Terminals description ISO n°1	(C-B2-B3)CO (15-16-18)OC (A1-A2)CO (25-26-28)OC
Output relay state	Tripped if A measured > A set
9 mm pitches	2.5
Net Weight	0.37 lb(US) (0.168 kg)

Environment	Electromagnetic compatibility	Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2
	Ambient air temperature for operation	-4...149 °F (-20...65 °C)
	Vibration resistance	0.35 ms 10...55 Hz)IEC 60068-2-6
	Shock resistance	15 gn 11 ms IEC 60068-2-27
	Standards	EN/IEC 60255-6
	Product Certifications	UL CSA GL
	Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
	Relative humidity	15...85 % 3K3 IEC 60721-3-3

IP degree of protection	IP20 IEC 60529 terminals) IP50 IEC 60529 casing)
Pollution degree	3 IEC 60664-1
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
Resistance to electrostatic discharge	6 kV contact IEC 61000-4-2 level 3 8 kV air IEC 61000-4-2 level 3
Resistance to electromagnetic fields	9.14 V/m (10 V/m) IEC 61000-4-3 level 3
Resistance to fast transients	2 kV IEC 61000-4-4 level 3
Protection against electric shocks	2 kV level 3 IEC 61000-4-5
Disturbance radiated/conducted	CISPR 11 group 1 - class A CISPR 22 - class A
Dielectric test voltage	2.5 kV
Non-dissipating shock wave	4.8 kV

