Product data sheet

Specifications

Green Premium



voltage control relay, Harmony Control Relays, 8A, 2CO, overvoltage or undervoltage detection, 15…500V AC DC, 24…240V AC DC

RM22UA33MR

Product availability: Stock - Normally stocked in distribution facility

Price*: 126.39 USD

Main

Range Of Product	Harmony Control Relays
Relay Type	Voltage control relay
Product Or Component Type	Voltage control relay
Phase	1 phase
Supply Circuit Type	DC
Relay Name	RM22UA
Relay Monitored Parameters	Undervoltage and overvoltage in window mode Overvoltage or undervoltage detection
Time Delay	Adjustable 0.130 s, +/- 10 % of the full scale value Tt- time delay upon fault
Switching Capacity In Va	2000 VA
Measurement Range	15500 V AC/DC
Contacts Type And Composition	2 C/O

Contacts Type And Composition 2 (

Complementary

· · · · · · · · · · · · · · · · · ·	
Reset Time	1500 ms at maximum voltage
Maximum Switching Voltage	250 V AC
Minimum Switching Current	10 mA 5 V DC
Maximum Switching Current	8 A AC
Supply Voltage Limits	20.4264 V AC/DC
Power Consumption In Va	3.5 VA AC
Maximum Power Consumption In W	1.5 W DC
Immunity To Microbreaks	10 ms
Resistance Across Terminals	150 kOhm E2-M terminals 300 kOhm E1-M terminals 500 kOhm E3-M terminals
Output Contacts	2 C/O
Nominal Output Current	8 A
Hysteresis	3 % fixed full scale for window mode

5...50 % adjustable threshold setting

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Delay At Power Up	600 ms
Maximum Measuring Cycle	100 ms measurement cycle as true rms value
Repeat Accuracy	+/- 0.5 % input and measurement circuit +/- 2 % time delay
Measurement Error	< 1 % over the whole range with voltage variation 0.05 %/°C with temperature variation
Response Time	<= 500 ms
Insulation Resistance	> 100 MOhm 500 V DC
Overvoltage Category	III IEC 60664-1
Insulation	Between supply and measurement
Connections - Terminals	Screw terminals, $2 \times 0.52 \times 2.5 \text{ mm}^2$ AWG 20AWG 14) solid without cable end Screw terminals, $2 \times 0.22 \times 1.5 \text{ mm}^2$ AWG 24AWG 16) flexible with cable end Screw terminals, $1 \times 0.51 \times 3.3 \text{ mm}^2$ AWG 20AWG 12) solid without cable end Screw terminals, $1 \times 0.21 \times 2.5 \text{ mm}^2$ AWG 24AWG 14) flexible with cable end
Tightening Torque	5.318.85 lbf.in (0.61 N.m) IEC 60947-1
Housing Material	Self-extinguishing plastic
Mounting Support	35 mm DIN rail conforming to IEC 60715
Electrical Durability	100000 cycles
Mechanical Durability	1000000 cycles
Utilisation Category	AC-15 IEC 60947-5-1 DC-13 IEC 60947-5-1 AC-1 IEC 60947-4-1 DC-1 IEC 60947-4-1
[Un] Rated Nominal Voltage	24240 V AC/DC 50/60 Hz, non self-powered
Safety Reliability Data	MTTFd = 308.2 years B10d = 290000
Contacts Material	Cadmium free
Control Type	With test button
Width	0.89 in (22.5 mm)
Net Weight	0.24 lb(US) (0.11 kg)

Environment

Electromagnetic Compatibility	Immunity for residential, commercial and light-industrial environments conforming to IEC 61000-6-1
	Immunity for industrial environments conforming to IEC 61000-6-2
	Emission standard for residential, commercial and light-industrial environments conforming to IEC 61000-6-3
	Emission standard for industrial environments conforming to IEC 61000-6-4
	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
	Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m level 3 conforming to IEC 61000-4-3
	Electrical fast transient/burst immunity test - test level: 4 kV level 4 (direct) conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 2 kV level 4 (capacitive coupling) conforming to IEC 61000-4-4
	Surge immunity test - test level: 4 kV level 4 (common mode) conforming to IEC 61000-4-5
	Surge immunity test - test level: 2 kV level 4 (differential mode) conforming to IEC 61000-4-5
	Conducted and radiated emissions class B group 1 conforming to CISPR 11
	Conducted and radiated emissions class B conforming to CISPR 22
Ambient Air Temperature For	-4122 °F (-2050 °C) 60 Hz
Operation	-4140 °F (-2060 °C) 50 Hz

Standards	IEC 60255-1
Product Certifications	RCM UL EAC CSA CE GL CCC
Ambient Air Temperature For Storage	-40158 °F (-4070 °C)
Relative Humidity	9397 % 77131 °F (2555 °C) IEC 60068-2-30
Vibration Resistance	0.075 mm 1058.1 Hz) not in operation IEC 60068-2-6 1 gn 1058.1 Hz) not in operation IEC 60068-2-6 0.035 mm 58.1150 Hz) in operation IEC 60068-2-6 0.5 gn 58.1150 Hz) in operation IEC 60068-2-6
Shock Resistance	15 gn 11 ms) not in operation IEC 60068-2-27 5 gn 11 ms) in operation IEC 60068-2-27
Ip Degree Of Protection	IP20 IEC 60529 terminals) IP40 IEC 60529 housing) IP50 IEC 60529 front panel)
Pollution Degree	3 IEC 60664-1
Dielectric Test Voltage	2.5 kV AC 50 Hz, 1 min IEC 60255-27

Ordering and shipping details

Category	US10CP222380
Discount Schedule	0CP2
Gtin	3606480792250
Returnability	Yes
Country Of Origin	ID

Packing Units

-	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.02 in (2.6 cm)
Package 1 Width	3.23 in (8.2 cm)
Package 1 Length	3.74 in (9.5 cm)
Package 1 Weight	4.30 oz (122 g)

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

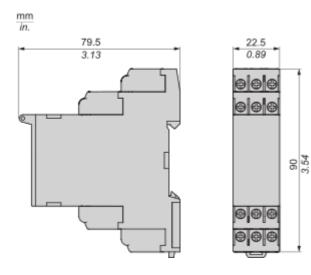
Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Weee Circularity Profile	

Product data sheet

Dimensions Drawings

Dimensions

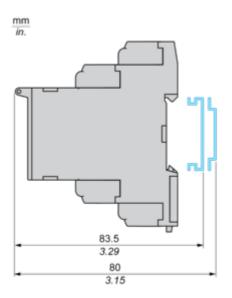


Product data sheet

Mounting and Clearance

Mounting and Clearance

Rail Mounting



Connections and Schema

Voltage Measurement Relay

Wiring Diagram



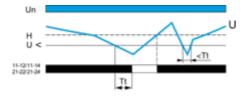
A1,A2 : Supply voltage

E1,E2,E3,M : Voltages to be measured 11-14,12 : 1st C/O contact of output relay 21-24,22 : 2nd C/O contact of output relay **Technical Description**

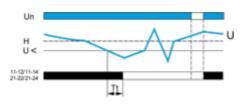
Function Diagrams

Undervoltage Control

Without memory ("No Memory" mode)

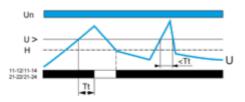


With memory ("Memory" mode)

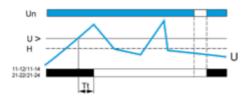


Overvoltage Control

Without memory ("No Memory" mode)



With memory ("Memory" mode)



Legend

Tt Time delay after crossing of threshold Un Nominal supply voltage U Monitored supply voltage H Hysteresis U> Overvoltage threshold U< Undervoltage threshold 11-12/11-14, 21-22/21-24 Output relay connections Relay status: black color = energized.

NOTE: In "Memory" mode, the relay opens when crossing of the threshold is detected and then stays in that position. The power supply voltage must be switched off to reset the product.