

Product datasheet

Specifications



Harmony. Modular 1-phase voltage control relay. 8 A. 2 CO. 80...300 V AC/DC. 110...240 V AC/DC

RM22UB34

Price: 1,982.69 ZAR

Main

Range Of Product	Harmony Control Relays
Relay Type	Voltage control relay
Product Or Component Type	Voltage control relay
Network Number Of Phases	1 phase
Supply Circuit Type	AC/DC
Relay Name	RM22UA
Relay Monitored Parameters	Overvoltage and undervoltage detection
Time Delay	Adjustable 0.1...30 s, +/- 10 % of the full scale value Tt- time delay upon fault
Switching Capacity In Va	2000 VA
Measurement Range	80...300 V AC/DC
Contacts Type And Composition	2 C/O

Complementary

Reset Time	1500 ms at maximum voltage
Maximum Switching Voltage	250 V AC
Minimum Switching Current	10 mA at 5 V DC
Maximum Switching Current	8 A AC
Supply Voltage Limits	60...280 V AC
Power Consumption In Va	5 VA AC
Maximum Power Consumption In W	2 W DC
Immunity To Microbreaks	20 ms
Output Contacts	2 C/O
Nominal Output Current	8 A
Hysteresis	5...50 % adjustable of threshold setting
Delay At Power Up	600 ms
Maximum Measuring Cycle	250 ms measurement cycle as true rms value
Repeat Accuracy	+/- 0.5 % for input and measurement circuit +/- 2 % for time delay
Measurement Error	< 1 % over the whole range with voltage variation 0.2 %/°C with temperature variation
Response Time	<= 500 ms

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Insulation Resistance	> 100 MOhm at 500 V DC
Overvoltage Category	III conforming to IEC 60664-1
Connections - Terminals	Screw terminals, 2 x 0.5...2 x 2.5 mm ² (AWG 20...AWG 14) solid without cable end Screw terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) flexible with cable end Screw terminals, 1 x 0.5...1 x 3.3 mm ² (AWG 20...AWG 12) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm ² (AWG 24...AWG 14) flexible with cable end
Tightening Torque	0.6...1 N.m conforming to IEC 60947-1
Housing Material	Self-extinguishing plastic
Mounting Support	35 mm DIN rail conforming to IEC 60715
Electrical Durability	100000 cycles
Mechanical Durability	10000000 cycles
Utilisation Category	AC-15 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 AC-1 conforming to IEC 60947-4-1 DC-1 conforming to IEC 60947-4-1
[Un] Rated Nominal Voltage	110...240 V AC/DC 50/60 Hz, non self-powered
Safety Reliability Data	MTTFd = 433.7 years B10d = 400000
Contacts Material	Cadmium free
Control Type	With test button
Width	22.5 mm
Net Weight	0.09 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 Operation	-20...50 °C at 60 Hz -20...60 °C at 50 Hz
Standards	IEC 60255-1
Product Certifications	CCC CE CSA EAC UL GL RCM
Ambient Air Temperature For Storage	-40...70 °C
Relative Humidity	93...97 % at 25...55 °C conforming to IEC 60068-2-30

Vibration Resistance	0.075 mm (f= 10...58.1 Hz) not in operation conforming to IEC 60068-2-6 1 gn (f= 10...58.1 Hz) not in operation conforming to IEC 60068-2-6 0.035 mm (f= 58.1...150 Hz) in operation conforming to IEC 60068-2-6 0.5 gn (f= 58.1...150 Hz) in operation conforming to IEC 60068-2-6
Shock Resistance	15 gn (duration = 11 ms) for not in operation conforming to IEC 60068-2-27 5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27
Ip Degree Of Protection	IP20 (terminals) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front panel) conforming to IEC 60529
Pollution Degree	3 conforming to IEC 60664-1
Dielectric Test Voltage	2.5 kV, 1 min AC 50 Hz conforming to IEC 60255-27

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.6 cm
Package 1 Width	8.2 cm
Package 1 Length	9.5 cm
Package 1 Weight	104.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	40
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.58 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	640
Package 3 Height	80.0 cm
Package 3 Width	80.0 cm
Package 3 Length	60.0 cm
Package 3 Weight	86.18 kg

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class 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.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

Mercury Free

RoHS Exemption Information Yes

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](#)

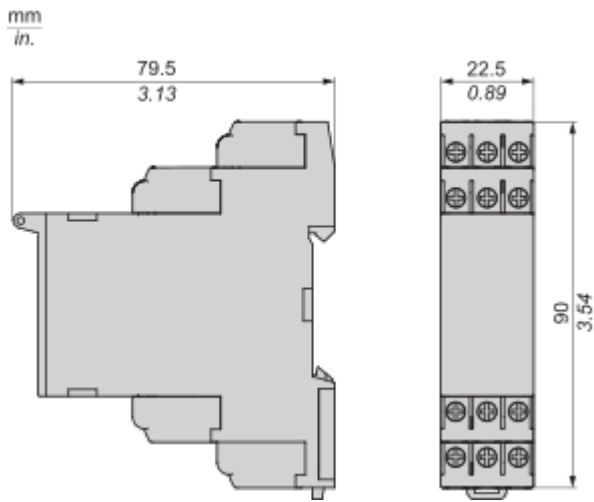
Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)

Dimensions Drawings

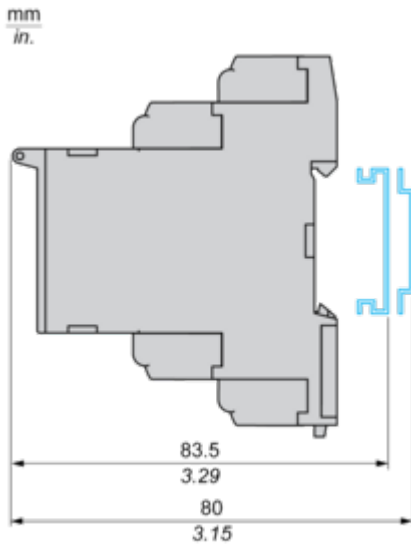
Dimensions



Mounting and Clearance

Mounting and Clearance

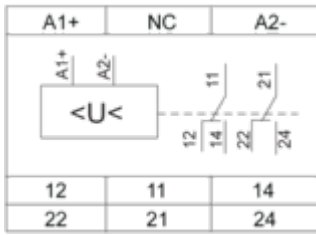
Rail Mounting



Connections and Schema

Voltage Control Relay

Wiring Diagram

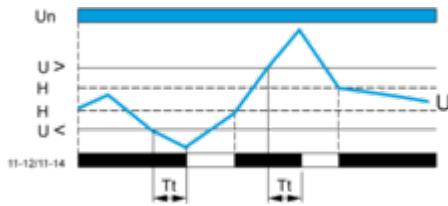


A1+,A2- : Voltage to be monitored
11-14,12 : 1st C/O contact of output relay
21-24,22 : 2nd C/O contact of output relay

Technical Description

Function Diagram

Control of Overvoltage and Undervoltage in Window 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** Output relay connections
- Relay status:** black color = energized.