

# Product data sheet

Specifications



voltage control relay, Harmony Control Relays, 5A, 2CO, 220-480V AC

RM35UB330

Product availability: Stock - Normally stocked in distribution facility

**Price\*: 229.00 USD**

## Main

Range Of Product	Harmony Control Relays
Relay Type	Voltage control relay
Product Or Component Type	3-phase control relay
Product Specific Application	For 3-phase supply
Relay Name	RM35UB3
Relay Monitored Parameters	Overvoltage and undervoltage between phases
Time Delay	Adjustable 0.3...30 s, 0 + 10 % Tt- time delay upon fault
Switching Capacity In Va	1250 VA
Minimum Switching Current	10 mA 5 V DC
Maximum Switching Current	5 A AC/DC
Power Consumption In Va	0...22 VA 400 V AC 50 Hz
Measurement Range	208...480 V voltage AC 50/60 Hz
Utilisation Category	AC-12 IEC 60947-5-1 AC-13 IEC 60947-5-1 AC-14 IEC 60947-5-1 AC-15 IEC 60947-5-1 DC-12 IEC 60947-5-1 DC-13 IEC 60947-5-1 DC-14 IEC 60947-5-1
Contacts Type And Composition	2 C/O

## Complementary

Reset Time	1500 ms time delay
Maximum Switching Voltage	250 V AC/DC
Supply Voltage Limits	194...528 V AC
Voltage Detection Threshold	194 V
Control Circuit Frequency	50...60 Hz +/- 15 %
Output Contacts	1 C/O + 1 C/O, 1 per threshold
Nominal Output Current	5 A
Maximum Measuring Cycle	150 ms measurement cycle as true rms value
Hysteresis	2 %
Delay At Power Up	650 ms
Measurement Accuracy	+/- 10 % of the full scale value

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

<b>Repeat Accuracy</b>	+/- 0.5 % input and measurement circuit +/- 1 % time delay
<b>Measurement Error</b>	< 1 % over the whole range with voltage variation 0.05 %/°C with temperature variation
<b>Response Time</b>	< 200 ms (in the event of a fault)
<b>Quality Labels</b>	CE
<b>Overvoltage Category</b>	III IEC 60664-1
<b>Insulation Resistance</b>	> 500 MOhm 500 V DC IEC 60255-5 > 500 MOhm 500 V DC IEC 60664-1
<b>[U<sub>i</sub>] Rated Insulation Voltage</b>	400 V IEC 60664-1
<b>Threshold Adjustment Voltage</b>	2...20 % of U <sub>n</sub> selected -12...-2 % in the range 220 V AC +2...+10 % in the range 480 V AC
<b>Operating Position</b>	Any position without derating
<b>Connections - Terminals</b>	Screw terminals, 1 x 0.5...1 x 4 mm <sup>2</sup> AWG 20...AWG 11) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm <sup>2</sup> AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...2 x 2.5 mm <sup>2</sup> AWG 24...AWG 12) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm <sup>2</sup> AWG 24...AWG 16) flexible with cable end
<b>Tightening Torque</b>	5.31...8.85 lbf.in (0.6...1 N.m) IEC 60947-1
<b>Housing Material</b>	Self-extinguishing plastic
<b>Local Signalling</b>	for power ON LED (green) for relay ON LED (yellow)
<b>Mounting Support</b>	35 mm symmetrical DIN rail conforming to IEC 60715
<b>Electrical Durability</b>	10000 cycles
<b>Mechanical Durability</b>	30000000 cycles
<b>Operating Rate</b>	<= 360 operations/hour full load
<b>[U<sub>n</sub>] Rated Nominal Voltage</b>	220...480 V 50/60 Hz, self-powered
<b>Safety Reliability Data</b>	B10d = 300000 MTTFd = 319.6 years
<b>Width</b>	1.38 in (35 mm)
<b>Control Type</b>	Without test button
<b>Net Weight</b>	0.18 lb(US) (0.08 kg)
<b>Functionality</b>	Overvoltage and undervoltage detection
<b>Compatibility Code</b>	RM3

## Environment

<b>Electromagnetic Compatibility</b>	Emission standard for industrial environments conforming to IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2
<b>Standards</b>	IEC 60255-1
<b>Product Certifications</b>	C-tick GOST CSA GL UL
<b>Directives</b>	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
<b>Ambient Air Temperature For Storage</b>	-40...158 °F (-40...70 °C)

<b>Ambient Air Temperature For Operation</b>	-4...122 °F (-20...50 °C)
<b>Relative Humidity</b>	95 % 131 °F (55 °C) IEC 60068-2-30
<b>Vibration Resistance</b>	0.35 mm 5...57.6 Hz)IEC 60068-2-6 1 gn 57.6...150 Hz)IEC 60255-21-1
<b>Shock Resistance</b>	5 gn IEC 60068-2-27
<b>Ip Degree Of Protection</b>	IP20 IEC 60529 terminals) IP30 IEC 60529 casing)
<b>Pollution Degree</b>	3 IEC 60664-1
<b>Dielectric Test Voltage</b>	2 kV AC 50 Hz, 1 min
<b>Non-Dissipating Shock Wave</b>	4 kV

## Ordering and shipping details

<b>Category</b>	US10CP222380
<b>Discount Schedule</b>	0CP2
<b>Gtin</b>	3389119405324
<b>Returnability</b>	Yes
<b>Country Of Origin</b>	FR

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	1.77 in (4.500 cm)
<b>Package 1 Width</b>	3.07 in (7.800 cm)
<b>Package 1 Length</b>	3.82 in (9.700 cm)
<b>Package 1 Weight</b>	4.69 oz (133.000 g)
<b>Unit Type Of Package 2</b>	S03
<b>Number Of Units In Package 2</b>	48
<b>Package 2 Height</b>	11.81 in (30.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	14.66 lb(US) (6.649 kg)

## Contractual warranty

<b>Warranty</b>	18 months
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## 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-CO<sub>2</sub> 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](#)

Circularity Profile [End of Life Information](#)

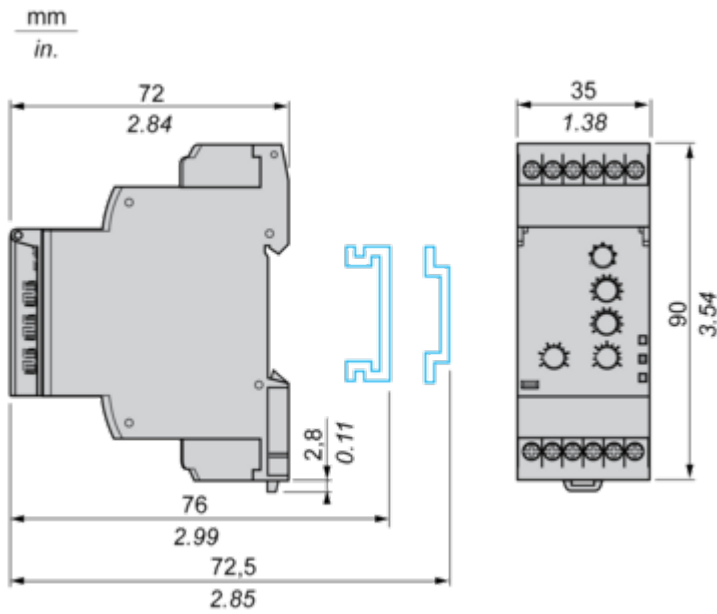
**California Proposition 65** WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Dimensions Drawings

3-Phase Voltage Control Relays

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Dimensions and Mounting

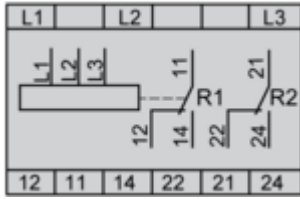


Connections and Schema

3-Phase Voltage Control Relays

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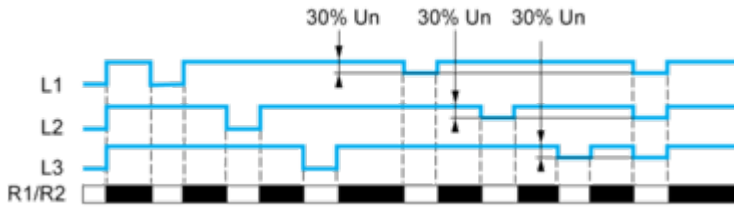
Wiring Diagram



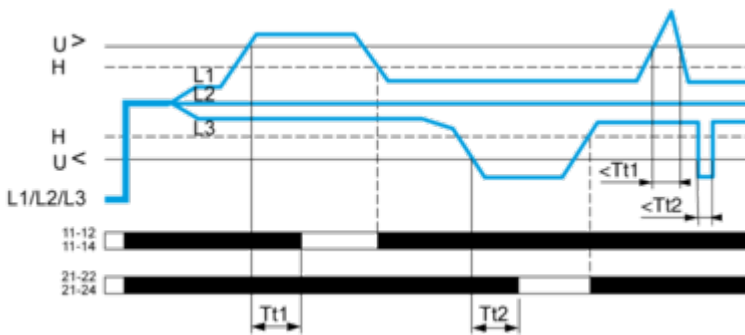
Technical Description

Function Diagrams

Phase Failure Detection (U measured < 0.7 x nominal supply voltage)



Control of Overvoltage and Undervoltage



Legend

- Un Nominal supply voltage
- Tt1 Overvoltage threshold delay (adjustable on front panel from 0.3 s to 30 s)
- Tt2 Undervoltage threshold delay (adjustable on front panel 0.3 s to 30 s)
- H Hysteresis
- U> Overvoltage threshold
- U< Undervoltage threshold
- L1, L2, L3 Phases of the supply voltage monitored
- 11-12, 11-14 R1 output relay connections (refer to Connections and Schema)
- 21-22, 21-24 R2 output relay connections (refer to Connections and Schema)
- Relay status: black color = energized.