

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

RM35UB330

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 0.330 s, 0 + 10 % Tt- time delay upon fault
Switching Capacity In Va	1250 VA
Measurement Range	208480 V AC
Contacts Type And Composition	2 C/O

Complementary

Complementary	
Reset Time	1500 ms time delay
Maximum Switching Voltage	250 V AC/DC
Minimum Switching Current	10 mA at 5 V DC
Maximum Switching Current	5 A AC/DC
Supply Voltage Limits	194528 V AC
Power Consumption In Va	022 VA at 400 V AC 50 Hz
Control Circuit Frequency	5060 Hz +/- 15 %
Voltage Detection Threshold	194 V
Output Contacts	1 C/O + 1 C/O, 1 per threshold
Nominal Output Current	5 A
Hysteresis	2 %
Measurement Accuracy	+/- 10 % of the full scale value
Delay At Power Up	650 ms
Maximum Measuring Cycle	150 ms measurement cycle as true rms value
Threshold Adjustment Voltage	220 % of Un selected -122 % in the range 220 V AC +2+10 % in the range 480 V AC
Repeat Accuracy	+/- 0.5 % for input and measurement circuit +/- 1 % for time delay
Measurement Error	< 1 % over the whole range with voltage variation 0.05 %/°C with temperature variation

Response Time	< 200 ms (in the event of a fault)
Quality Labels	CE
Insulation Resistance	> 500 MOhm at 500 V DC conforming to IEC 60255-5 > 500 MOhm at 500 V DC conforming to IEC 60664-1
Operating Position	Any position without derating
Local Signalling	LED (green) for power ON LED (yellow) for relay ON
Overvoltage Category	III conforming to IEC 60664-1
[Ui] Rated Insulation Voltage	400 V conforming to IEC 60664-1
Connections - Terminals	Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.22 x 2.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end
Tightening Torque	0.61 N.m conforming to IEC 60947-1
Housing Material	Self-extinguishing plastic
Mounting Support	35 mm symmetrical DIN rail conforming to IEC 60715
Electrical Durability	10000 cycles
Mechanical Durability	30000000 cycles
Operating Rate	<= 360 operations/hour full load
Utilisation Category	AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 DC-14 conforming to IEC 60947-5-1
[Un] Rated Nominal Voltage	, self-powered
Safety Reliability Data	B10d = 300000 MTTFd = 319.6 years
Control Type	Without test button
Width	35 mm
Net Weight	0.08 kg
Environment	
Electromagnetic Compatibility	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
Ambient Air Temperature For Operation	-2050 °C
Vibration Resistance	0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1
Shock Resistance	5 gn conforming to IEC 60068-2-27
Standards	IEC 60255-1

Electromagnetic Compatibility	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
Ambient Air Temperature For Operation	-2050 °C
Vibration Resistance	0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1
Shock Resistance	5 gn conforming to IEC 60068-2-27
Standards	IEC 60255-1
Product Certifications	C-Tick GOST CSA GL UL
Ambient Air Temperature For Storage	-4070 °C
Relative Humidity	95 % at 55 °C conforming to IEC 60068-2-30

Ip Degree Of Protection	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529
Pollution Degree	3 conforming to IEC 60664-1
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
Dielectric Test Voltage	2 kV, 1 min AC 50 Hz
Non-Dissipating Shock Wave	4 kV

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.500 cm
Package 1 Width	7.800 cm
Package 1 Length	9.700 cm
Package 1 Weight	133.000 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	48
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.649 kg

Contractual warranty

Warranty 18 months

Sustainability

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.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

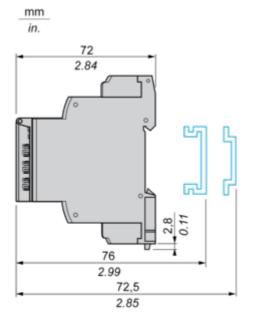
Certifications & Standards

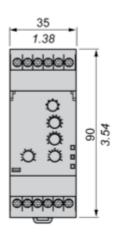
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Circularity Profile	End of Life Information
Environmental Disclosure	Product Environmental Profile
China Rohs Regulation	China RoHS declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Reach Regulation	REACh Declaration

Dimensions Drawings

3-Phase Voltage Control Relays

Dimensions and Mounting





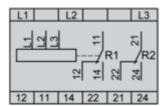
Product data sheet

RM35UB330

Connections and Schema

3-Phase Voltage Control Relays

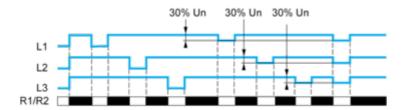
Wiring Diagram



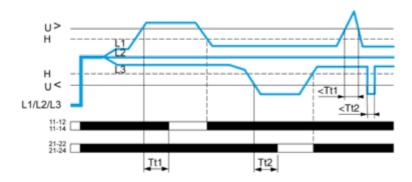
Technical Description

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.