Product data sheet

Specifications



voltage control relay, Harmony Control Relays, 5A, 2CO, 120…277V AC

RM35UB3N30

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	Absence of neutral Overvoltage and undervoltage between phases Overvoltage and undervoltage between neutral	
Time Delay	Adjustable 0.330 s, 0 + 10 % Tt- time delay upon fault	
Switching Capacity In Va	1250 VA	
Measurement Range	120277 V AC	
Contacts Type And Composition	2 C/O	

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	114329 V AC
Power Consumption In Va	03.9 VA AC
Control Circuit Frequency	5060 Hz +/- 15 %
Voltage Detection Threshold	114 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
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 mm ² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm ² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.22 x 2.5 mm ² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm ² (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	3000000 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 = 470000 MTTFd = 502.2 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	
Product Certifications	UL C-Tick GL CSA GOST	
Ambient Air Temperature For Storage	-4070 °C	
Polotivo Humidity		

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	4.7 cm
Package 1 Width	7.8 cm
Package 1 Length	9.7 cm
Package 1 Weight	125 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	48
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	6.719 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



EQ

Rohs Exemption Information Yes

Certifications & Standards

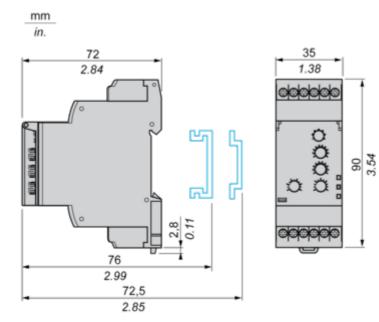
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product 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

Product data sheet

Dimensions Drawings

3-Phase Voltage Control Relays

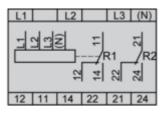
Dimensions and Mounting



Connections and Schema

3-Phase Voltage Control Relays

Wiring Diagram

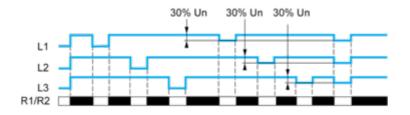


Product data sheet

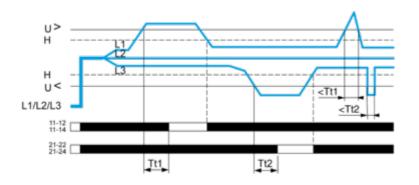
Technical Description

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
- Tt2 Undervoltage threshold delay
- 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
- 21-22, 21-24 R2 output relay connections
- Relay status: black color = energized.