Product datasheet

Specifications





voltage control relay RM17-U range 183..528 V AC

RM17UB310

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	RM17UB3	
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	220480 V AC	
Contacts Type And Composition	1 C/O	

Contacts Type And Composition 1 C/

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	183528 V AC
Power Consumption In Va	022 VA at 400 V AC 50 Hz
Control Circuit Frequency	5060 Hz +/- 10 %
Voltage Detection Threshold	183 V
Output Contacts	1 C/O
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 -217 % in the range 220 V AC +2+10 % in the range 480 V AC -212 % in the range 208 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

Excluding VAT, FCA Jabal Ali & are subject to change - check with your local distributor.

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	100000 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	17.5 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	GOST UL GL C-Tick CSA	
Ambient Air Temperature For Storage	-4070 °C	
Relative Humidity	05 % at 55 °C conforming to IEC 60068 2 30	

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	89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive
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	2.400 cm
Package 1 Width	7.800 cm
Package 1 Length	9.900 cm
Package 1 Weight	87.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	48
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.675 kg

Contractual warranty

Warranty

18 months

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

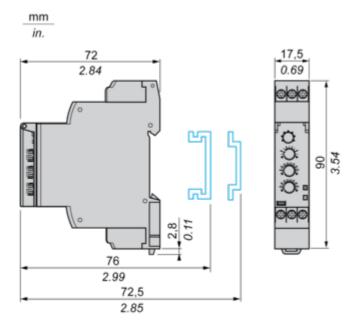
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

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Dimensions Drawings

3-Phase Voltage Control Relays

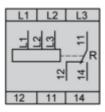
Dimensions and Mounting



Connections and Schema

3-Phase Voltage Control Relays

Wiring Diagram

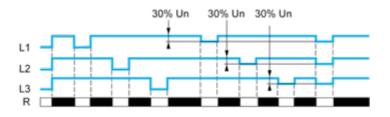


Product datasheet

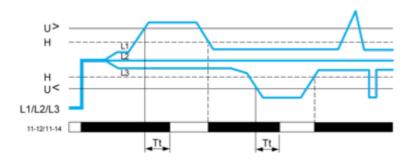
Technical Description

Function Diagrams

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



Control of Overvoltage and Undervoltage



Legend

Un Nominal supply voltage

R Output relay

 $\ensuremath{\text{Tt}}$ Overvoltage and undervoltage threshold delay (adjustable on front panel from 0.3 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

Relay status: black color = energized.