Product datasheet Characteristics

RM35UB330

voltage control relay RM35-U - range 194..528 V AC



Main

Zelio Control		
Modular measurement and control relays		
Voltage control relay		
For 3-phase supply		
RM35UB3		
Overvoltage and undervoltage between phases Overvoltage and undervoltage between neutral Absence of neutral		
Adjustable 0.330 s, 0 + 10 % on crossing the threshold		
1250 VA		
10 mA at 5 V DC		
5 A AC/DC		
<= 22 VA at 400 V AC 50 Hz		
194528 V voltage AC 50/60 Hz		
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		
	Modular measurement and control relays Voltage control relay For 3-phase supply RM35UB3 Overvoltage and undervoltage between phases Overvoltage and undervoltage between neutral Absence of neutral Adjustable 0.330 s, 0 + 10 % on crossing the threshold 1250 VA 10 mA at 5 V DC 5 A AC/DC <= 22 VA at 400 V AC 50 Hz 194528 V voltage AC 50/60 Hz AC-12 conforming to IEC 60947-5-1 AC-13 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-13 conforming to IEC 60947-5-1	

Complementary

		·=
Reset time	1500 ms for time delay	s not
Maximum switching voltage	250 V AC/DC	tio
[Us] rated supply voltage	220480 V AC, 50/60 Hz +/- 10 %	n
Supply voltage limits	194528 V AC	docur
Voltage detection threshold	194 V	
Control circuit frequency	5060 Hz +/- 15 %	
Output contacts	1 C/O + 1 C/O, 1 per threshold	iscies:

Nominal output current	5 A		
Measuring cycle	<= 150 ms measurement cycle as true rms value		
Hysteresis	2 %		
Run up delay at power up	<= 650 ms		
Measurement accuracy	+/- 10 % of the full scale value		
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		
Overvoltage category	III conforming to IEC 60664-1		
Insulation resistance	> 500 MOhm at 500 V DC conforming to IEC 60255-5 > 500 MOhm at 500 V DC conforming to IEC 60664-1		
[Ui] rated insulation voltage	400 V conforming to IEC 60664-1		
Operating position	Any position without derating		
Connections - terminals	Screw terminals 1 x 0.51 x 4 mm ² - AWG 20AWG 11, solid cable without cable end Screw terminals 2 x 0.52 x 2.5 mm ² - AWG 20AWG 14, solid cable without cable end Screw terminals 2 x 0.22 x 1.5 mm ² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.22 x 2.5 mm ² - AWG 24AWG 12, flexible cable with cable end		
Tightening torque	0.61 N.m conforming to IEC 60947-1		
Housing material	Self-extinguishing plastic		
Local signalling	LED green for power ON LED yellow for relay ON		
Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715		
Electrical durability	10000 cycles		
Mechanical durability	<= 30000000 cycles		
Operating rate	<= 360 operations/hour under full load		
Safety reliability data	B10d = 300000 MTTFd = 319.6 years		
Width	35 mm		
Product weight	0.08 kg		

Environment

Electromagnetic compatibility	Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3		
	Immunity for industrial environments conforming to NF EN/IEC 61000-6-2		
Standards	EN/IEC 60255-1		
Product certifications	C-Tick UL GL CSA GOST		
Directives	89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive		
Ambient air temperature for storage	-4070 °C		
Ambient air temperature for operation	-2050 °C		
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30		
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		
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529		
Pollution degree	3 conforming to IEC 60664-1		
Dielectric test voltage	2 kV AC 50 Hz, 1 min		
Non-dissipating shock wave	4 kV		

Offer Sustainability

Sustainable offer status	Green Premium product		
RoHS (date code: YYWW)	Compliant - since 0701 - Schneider Electric declaration of conformity		
	Schneider Electric declaration of conformity		
REACh	Reference not containing SVHC above the threshold		
	Reference not containing SVHC above the threshold		
Product environmental profile	Available		
	Product environmental		
Product end of life instructions	Available		
	Product environmental		

Contractual warranty

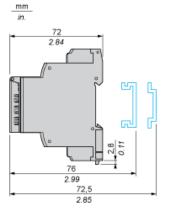
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Warranty period		18 months	

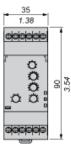
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Dimensions Drawings

3-Phase Voltage Control Relays

Dimensions and Mounting



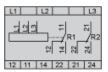


Product datasheet Connections and Schema

RM35UB330

3-Phase Voltage Control Relays

Wiring Diagram

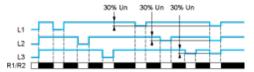


Product datasheet Technical Description

RM35UB330

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&It; 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.