Product data sheet Characteristics

RM35UB330

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



Main

Main				
Range of product	Zelio Control			
Product or component type	Modular measurement and control relays			
Relay type	Voltage control relay			
Product specific application	For 3-phase supply			
Relay name	RM35UB3			
Relay monitored parameters	Absence of neutral Overvoltage and undervoltage between neutral Overvoltage and undervoltage between phases			
Time delay	Adjustable 0.330 s, 0 + 10 % on crossing the threshold			
Switching capacity in VA	1250 VA			
Minimum switching current	10 mA at 5 V DC			
Maximum switching current	5 A AC/DC			
Power consumption in VA	<= 22 VA 400 V AC 50 Hz			
Measurement range	194528 V voltage AC 50/60 Hz			
Utilisation category	DC-14 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-12 conforming to IEC 60947-5-1			

Complementary

Complementary			
Reset time	1500 ms for time delay		
Maximum switching voltage	250 V AC/DC		
[Us] rated supply voltage	220480 V AC		
Supply voltage limits	194528 V AC		
Voltage detection threshold	194 V		
Control circuit frequency	5060 Hz +/- 15 %		
Output contacts	1 C/O + 1 C/O, 1 per threshold		
Nominal output current	5 A		
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		
Repeat accuracy	+/- 1 % for time delay +/- 0.5 % for input and measurement circuit		
Measurement error	0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation		
Response time	< 200 ms in the event of a fault		
Marking	CE : 73/23/EEC CE : EMC 89/336/EEC		
Overvoltage category	III conforming to IEC 60664-1		
Insulation resistance	> 500 MOhm at 500 V DC conforming to IEC 60664-1 > 500 MOhm at 500 V DC conforming to IEC 60255-5		
[Ui] rated insulation voltage	400 V conforming to IEC 60664-1		

Supply frequency	50/60 Hz +/- 10 %			
Operating position	Any position without derating			
Connections - terminals	Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.22 x 2.5 mm² - AWG 24AWG 12, flexible cable with cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 14, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end			
Tightening torque	0.61 N.m conforming to IEC 60947-1			
Housing material	Self-extinguishing plastic			
Status LED	1 LED yellow for relay ON 1 LED green for power 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			
Width	35 mm			
Product weight	0.08 kg			
Environment Electromagnetic compatibility	Immunity for industrial environments conforming to NF EN/IEC 61000-6-2 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4			
Standards	EN/IEC 60255-1			
Product certifications	CSA C-Tick GL GOST UL			
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	1 gn (f = 57.6150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 0.35 mm (f = 557.6 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1			
Shock resistance	5 gn conforming to IEC 60068-2-27			
IP degree of protection	IP30 (casing) conforming to IEC 60529 IP20 (terminals) conforming to IEC 60529			
dog.oo o. p.otoodo	IP20 (terminals) conforming to IEC 60529			
Pollution degree	IP20 (terminals) conforming to IEC 60529 3 conforming to IEC 60664-1			



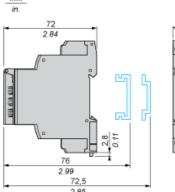
4 kV

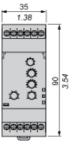
Non-dissipating shock wave

RM35UB330

3-Phase Voltage Control Relays

Dimensions and Mounting



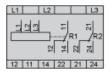


Product data sheet Connections and Schema

RM35UB330

3-Phase Voltage Control Relays

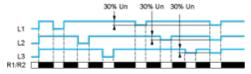
Wiring Diagram



RM35UB330

Function Diagrams

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



Un Nominal supply voltage

L1, Phases of the supply voltage monitored

L2,

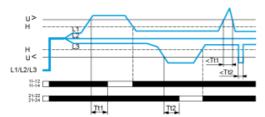
L3

R1/ Output relays connections (refer to Connections and Schema)

R2

Relay status: black color = energized.

Control of Overvoltage and Undervoltage



Tt1 Overvoltage threshold delay (adjustable on front panel from 0.3 s to 30 s)

Undervoltage threshold delay (adjustable on front panel 0.3 s to 30 s) Tt2

Overvoltage threshold U>

U< Undervoltage threshold

L1, Phases of the supply voltage monitored

L2,

L3

11-12R1 output relay connections (refer to Connections and Schema)

21-22R2 output relay connections (refer to Connections and Schema)

21-24

Relay status: black color = energized.

The overvoltage and undervoltage thresholds are adjustable from 2...20% of Un (nominal supply voltage):

Un Phase/phase		208 V	220 V	380, 400, 415, 440 V	480 V
Voltage threshold (%)	>	-	+ 2+ 20	+ 2+ 20	+ 2+ 10
<	-	- 12 2	- 20 2	- 20 2	

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