Product datasheet Characteristics

RM35UB330





Main

wain			
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	Overvoltage and undervoltage between phases		
Time delay type	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	022 VA at 400 V AC 50 Hz		
Measurement range	194528 V voltage AC 50/60 Hz		
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		

Complementary

Complementary				
Reset time	1500 ms time delay			
Maximum switching voltage	250 V AC/DC			
[Us] rated supply voltage	220480 V AC, 50/60 Hz +/- 10 %			
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 %			
Run-up delay at power-up				
Measurement accuracy	+/- 10 % of the full scale value			
Repeat accuracy	+/- 0.5 % input and measurement circuit +/- 1 % 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 > 500 MOhm IEC 60255-5 conforming to IEC 60255-5 conforming to IEC 60255-5 IEC 60255-5 IEC 60255-5 IEC 60255-5 - 500 V at 500 V DC D DC DC DC conforming to IEC 60255-5, conforming to IEC 60255-5 conforming to IEC 60255-5 IEC 60255-5 c			
[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 0.2...2 x 1.5 mm² - AWG 24...AWG 16, flexible cable with cable



end Screw terminals 1 x 0.2...2 x 2.5 mm² - AWG 24...AWG 12, flexible cable with cable end

	end
Tightening torque	5.318.85 lbf.in (0.61 N.m) conforming to IEC 60947-1
Housing material	Self-extinguishing plastic
Local signalling	LED green power ON LED yellow 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	1.38 in (35 mm)
Product weight	0.18 lb(US) (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	CSA C-Tick GL GOST UL			
directives	89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive			
ambient air temperature for storage	-40158 °F (-4070 °C)			
ambient air temperature for operation	-4122 °F (-2050 °C)			
relative humidity	95 % at 131 °F (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

Green Premium product	Green Premium product		
Compliant - since 0701 - Schneider Electric declaration of conformity	Compliant - since 0701 - Schneider Electric declaration of conformity		
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold		
Available	Available		
Available	Available		
WARNING: This product can expose you to chemicals including:	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.	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	For more information go to www.p65warnings.ca.gov		

Contractual warranty

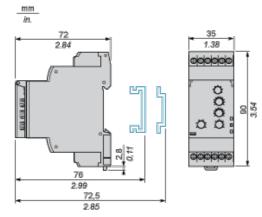
Warranty period

18 months

3-Phase Voltage Control Relays



Dimensions and Mounting



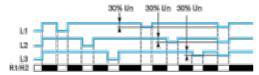
3-Phase Voltage Control Relays

Wiring Diagram

L1		12			L3	
학생의 된 전						
			=/	R1_	/R2	
5 12 12						
12	11	14	22	21	24	

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.

