

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

RM35UB3N30

Product availability: Non-Stock - Not normally stocked in distribution facility

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 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 % input and measurement circuit +/- 1 % time delay	
Measurement error	< 1 % over the whole range with voltage variation 0.05 %/°C with temperature variation	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Response time < 200 ms (in the event of a fault)		
Quality labels	CE	
Insulation resistance	> 500 MOhm 500 V DC IEC 60255-5	
	> 500 MOhm 500 V DC 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 IEC 60664-1	
Connections - terminals	Screw terminals, 1 x 0.51 x 4 mm² AWG 20AWG 11) solid without cable end	
	Screw terminals, 2 x 0.52 x 2.5 mm² AWG 20AWG 14) solid without cable end	
	Screw terminals, 1 x 0.22 x 2.5 mm² AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² AWG 24AWG 16) flexible with cable end	
Tightening torque	5.38.9 lbf.in (0.61 N.m) 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	30000000 cycles	
Operating rate	<= 360 operations/hour full load	
Utilisation category	AC-12 IEC 60947-5-1	
	AC-13 IEC 60947-5-1	
	AC-14 IEC 60947-5-1	
	AC-15 IEC 60947-5-1 DC-12 IEC 60947-5-1	
	DC-13 IEC 60947-5-1	
	DC-14 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	1.4 in (35 mm)	
Net Weight	0.18 lb(US) (0.08 kg)	
Environment		
Environment		
Flectromagnetic compatibility	Emission standard for industrial anvironments conforming to IEC 61000 6.4	

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	-4122 °F (-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 IEC 60068-2-27	
Standards	IEC 60255-1	
Product Certifications	UL C-tick GL CSA GOST	
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)	
Relative humidity	95 % 131 °F (55 °C) IEC 60068-2-30	

IP degree of protection	IP20 IEC 60529 terminals) IP30 IEC 60529 casing)	
Pollution degree	3 IEC 60664-1	
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility	
Dielectric test voltage	2 kV AC 50 Hz, 1 min	
Non-dissipating shock wave	4 kV	

Ordering and shipping details

Category	US10CP222380
Discount Schedule	0CP2
GTIN	3389119405331
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.85 in (4.700 cm)
Package 1 Width	3.07 in (7.800 cm)
Package 1 Length	3.82 in (9.700 cm)
Package 1 Weight	4.339 oz (123.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	14.749 lb(US) (6.690 kg)

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint		
Carbon footprint (kg CO2 eq, Total Life cycle)	36	

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
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

Use Again

○ Repack and remanufacture		
Take-back	No	

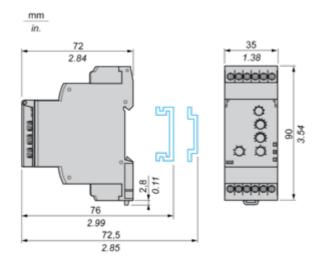
Product data sheet

RM35UB3N30

Dimensions Drawings

3-Phase Voltage Control Relays

Dimensions and Mounting



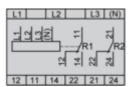
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Connections and Schema

3-Phase Voltage Control Relays

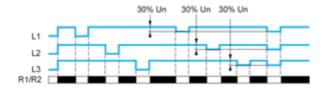
Wiring Diagram



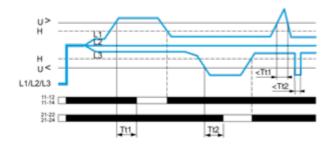
Technical Description

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

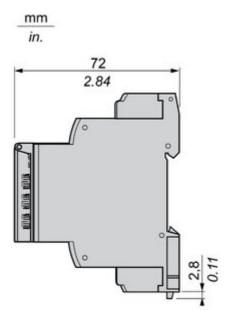
11-12, 11-14 R1 output relay connections

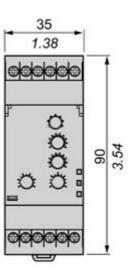
21-22, 21-24 R2 output relay connections

Relay status: black color = energized.

Technical Illustration

Dimensions





Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features

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Technical Benefits

Harmony Control Relay

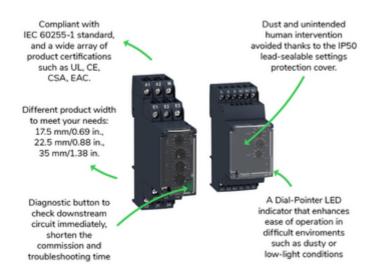


Image of product / Alternate images

Alternative











