Specifications





3-phase control relay, Harmony Control Relays, 5A, 2CO, 380...480V AC

RM22TA33

Product availability: Stock - Normally stocked in distribution facility

Price*: 137.01 USD

Main

Range Of Product	Harmony Control Relays	
Relay Type	Control relay	
Product Or Component Type	3-phase control relay	
Phase	3 phase	
Relay Name	RM22TA	
Relay Monitored Parameters	Phase sequence Phase failure detection Asymmetry	
Time Delay Type	Adjustable 0.130 s, +/- 10 % of the full scale value Tt- time delay upon fault	
Switching Capacity In Va	2000 VA	
Measurement Range	380480 V voltage AC	
Contacts Type And Composition	2 C/O	

Complementary

Reset Time	1500 ms at maximum voltage
Maximum Switching Voltage	250 V AC
Minimum Switching Current	10 mA 5 V DC
Maximum Switching Current	8 A AC
[Us] Rated Supply Voltage	AC/DC
Supply Voltage Limits	304576 V AC
Operating Limits	- 20 % + 20 % Un
Power Consumption In Va	15 VA 480 V AC 60 Hz
Voltage Detection Threshold	< 100 V AC
Supply Voltage Frequency	5060 Hz +/- 10 %
Output Contacts	2 C/O
Setting Accuracy Of The Switching Threshold	+/- 10 % of the full scale
Switching Threshold Drift	<= 0.05 % per degree centigrade depending permissible ambient air temperature <= 1 % within the supply voltage range
Setting Accuracy Of Time Delay	10 P
Time Delay Drift	<= 0.05 % per degree centigrade depending permissible ambient air temperature <= 1 % within the supply voltage range
Hysteresis	2 % fixed selectable

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

Run-Up Delay At Power-Up	650 ms
Maximum Measuring Cycle	150 ms measurement cycle as true rms value
Voltage Range	380480 V phase to phase
Adjustment Of Asymmetry Threshold	515 % of Un selected
Repeat Accuracy	+/- 0.5 % input and measurement circuit +/- 3 % time delay
Measurement Error	< 1 % over the whole range with voltage variation < 0.05 %/°C with temperature variation
Response Time	<= 300 ms
Overvoltage Category	III IEC 60664-1 III UL 508
Insulation Resistance	> 100 MOhm 500 V DC IEC 60255-27
Mounting Position	Any position
Connections - Terminals	Screw terminals, 2 x 0.52 x 2.5 mm ² AWG 20AWG 14) solid without cable end Screw terminals, 2 x 0.22 x 1.5 mm ² AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.51 x 3.3 mm ² AWG 20AWG 12) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm ² AWG 24AWG 14) flexible with cable end
Tightening Torque	5.318.85 lbf.in (0.61 N.m) IEC 60947-1
Housing Material	Self-extinguishing plastic
Status Led	LED (Yellow) relay ON LED (Green) power ON
Mounting Support	35 mm DIN rail conforming to IEC 60715
Electrical Durability	100000 cycles
Mechanical Durability	1000000 cycles
Utilisation Category	AC-15 IEC 60947-5-1 DC-13 IEC 60947-5-1 AC-1 IEC 60947-4-1 DC-1 IEC 60947-4-1
[Un] Rated Nominal Voltage	, self-powered
Safety Reliability Data	MTTFd = 388.1 years B10d = 350000
Contacts Material	Cadmium free
Control Type	With test button
Width	0.89 in (22.5 mm)
Net Weight	0.20 lb(US) (0.09 kg)

Environment

Immunity To Microbreaks

10 ms

Electromagnetic Compatibility	Immunity for residential, commercial and light-industrial environments conforming to IEC 61000-6-1		
	Immunity for industrial environments conforming to IEC 61000-6-2 Emission standard for residential, commercial and light-industrial environments		
	conforming to IEC 61000-6-3		
	Emission standard for industrial environments conforming to IEC 61000-6-4 Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m level 3 conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test - test level: 4 kV level 4 (direct) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 2 kV level 4 (capacitive coupling) conforming to IEC 61000-4-4 Surge immunity test - test level: 4 kV level 4 (common mode) conforming to IEC 61000-4-5		
			Surge immunity test - test level: 2 kV level 4 (differential mode) conforming to IEC 61000-4-5
			Conducted and radiated emissions class B group 1 conforming to CISPR 11 Conducted and radiated emissions class B conforming to CISPR 22
		Standards	IEC 60255-1
		Product Certifications	GL
			EAC
	000		
	CE		
	CSA		
	UL		
	RCM		
Ambient Air Temperature For Storage	-40158 °F (-4070 °C)		
Ambient Air Temperature For	-4122 °F (-2050 °C) 60 Hz		
Operation	-4140 °F (-2060 °C) 50 Hz AC/DC		
Relative Humidity	9397 % 77131 °F (2555 °C) IEC 60068-2-30		
Vibration Resistance	0.075 mm 1058.1 Hz) not in operation IEC 60068-2-6		
	1 gn 10…58.1 Hz) not in operation IEC 60068-2-6		
	0.035 mm 58.1150 Hz) in operation IEC 60068-2-6		
	0.5 gn 58.1150 Hz) in operation IEC 60068-2-6		
Shock Resistance	15 gn 11 ms) not in operation IEC 60068-2-27		
	5 gn 11 ms) in operation IEC 60068-2-27		
Ip Degree Of Protection	IP20 IEC 60529 terminals)		
	IP40 IEC 60529 housing)		
	IP50 IEC 60529 front panel)		

 Pollution Degree
 3 IEC 60664-1 3 UL 508

 Dielectric Test Voltage
 2.5 kV AC 50 Hz, 1 min IEC 60255-27

Ordering and shipping details

Category	US10CP222380	
Discount Schedule	0CP2	
Gtin	3606480792151	
Returnability	Yes	
Country Of Origin	ID	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.02 in (2.6 cm)

Package 1 Width	3.23 in (8.2 cm)	
Package 1 Length	3.74 in (9.5 cm)	
Package 1 Weight	3.67 oz (104.0 g)	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	40	
Package 2 Height	5.91 in (15.0 cm)	
Package 2 Width	11.81 in (30.0 cm)	
Package 2 Length	15.75 in (40.0 cm)	
Package 2 Weight	9.85 lb(US) (4.47 kg)	
Unit Type Of Package 3	P06	
Number Of Units In Package 3	640	
Package 3 Height	29.53 in (75.0 cm)	
Package 3 Width	23.62 in (60.0 cm)	
Package 3 Length	31.50 in (80.0 cm)	
Package 3 Weight	181.53 lb(US) (82.34 kg)	

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

Mercury Free

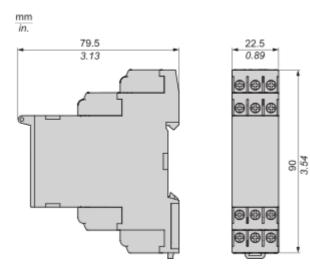
Rohs Exemption Information

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
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

Dimensions Drawings

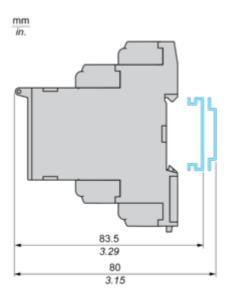
Dimensions



Mounting and Clearance

Mounting and Clearance

Rail Mounting



Connections and Schema

3-Phase Control Relay

Wiring Diagram

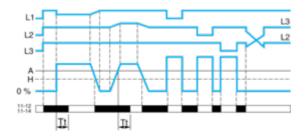


L1,L2,L3 : Supply to be monitored 11-14,12 : 1st C/O contact of output relay 21-24,22 : 2nd C/O contact of output relay

Technical Description

Function Diagram

Phase Sequence Control, Phase Failure Detection (U measured < 0.7 x nominal supply voltage), and Asymmetry Detection



Legend

Tt Time delay after crossing of threshold
L1, L2, L3 Phases of the supply voltage monitored
A Asymmetry threshold
H Hysteresis
11-12, 11-14 Output relay connections
Relay status: black color = energized.