QM Series Electromechanical Relay Specifications

	Q	M Series	Specificat	ion Table					
Part Numbers	QM2N1-A120	QM2N1-A220	QM4N1-A120	QM4N1-A220	Ned Highlia	41MZN 1-D24	QM2X1-D24	QM4N1-D24	QM4X1-D24
Contact Specifications									
Current Rating	5A		3A		√ 5A		3A		
Contact Type	DPDT		4PDT			DPDT		4PDT	
Terminal Type			Т	olug-in socket			T		
Rated Max. Resistive Load	5A @ 220VAC/5A @ 24VDC		3A @ 220VAC/3A @ 24VDC		5A @ 220VAC/5A @ 24VDC			3A @ 220VAC/3A @ 24VDC	
Rated Max. Inductive Load	2A @ 220VAC/2A @ 24VDC		1.5 A @ 220VAC/0.8 A @ 24VDC		2A @ 220VAC/2A @ 24VDC		1.5A @ 220VAC/0.8 A @ 24		
Minimum Recommended Load				1m/	A @ 1VDC				
Max. Switching Cap. (Resistive Load)	1,100VA/120W		660VA/72W		1,100VA/120W			660VA/72W	
Max. Switching Cap. (Inductive Load)	440VA/48W		176VA/36W		440VA/48W		176VA/36W		
Max. Contact Rating			125VDC		250VAC		C/125VDC		
	T	Coil	Specification	ns			T		
Options			LED Indicator				LED Indicator/ Diode Protection	LED Indicator D	ED Indicator/ iode Protection
Coil Input Voltage	110/120 VAC	220/240 VAC	110/120 VAC	220/240 VAC			24	VDC]
Rated Current at 50Hz	9.9 /10.8 mA	6.2/6.8 mA	9.9/10.8 mA	6.2/6.8 mA		36.9 mA			
Rated Current at 60Hz	8.4/ 9.2 mA	5.3/5.8 mA	8.4/9.2 mA	5.3/5.8 mA					
Coil Resistance	4.43 k Ω	12.95 k Ω	4.43 k Ω	12.95 k Ω		650Ω			
Power Consumption	Approx. 0.9 W to 1.1 W (at 60Hz)					Approx. 0.9 W			
Dropout Voltage (% of rated voltage)	Min. 30%					Min. 10%			
Pick-Up Voltage (Must operate voltage)	Max. 80% of the rated coil voltage								_
Max. Voltage (Max. continuous voltage)	110% of the rated coil voltage								
Min. Operating Voltage	80% of the rated coil voltage								
		Genera	l Specifica	tions					
Service Life	Mechanical: AC: Min. 50 million operations; DC: Min. 100 million operations (at operating frequency of 18,000 operations/hour)								
	Electrical: DPDT: Min. 500k operations; 4PDT: Min. 200k operations (at operating frequency of 1,800 operations/hour)								
Operate Time	20ms max								
Release Time	20ms max								
Ambient Temperature	-25° C to 75° C (-13° F to 167° F)								
Ambient Humidity	45% RH to 85% RH								
Contact Material	Fine	Silver	Gold-pla	ted Silver		Fine	Silver	Gold-plated	d Silver
Contact Resistance	50mΩ max								
Operating Frequency	Mechanical: 18,000 operations/hour; Electrical: 1,800 operations/hour								
Vibration Resistance	10Hz to 55Hz at double amplitude of 1.0mm								
Shock Resistance	1,000m/s² (approx. 100G)								
Weight	35g (1.24oz.)								
Agency Approvals and Standards	UL Recognized (#E222847), CE Certified (9667186-9811), CSA Certified (218218)								

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