



Type	FRM3	FRM3N	
Appearance			
Dimensions: L x W x H (mm)	28 x 22 x 35.5	28 x 22 x 35.5	
International Security Certificates	ULus: E141516 R50086180	ULus: E141516	
Coil Voltage (V)	DC5, 6, 12, 24, 36, 48, 110 AC6, 12, 24, 36, 48, 120, 220/240	DC5, 6, 12, 24, 36, 48, 110 AC6, 12, 24, 36, 48, 120, 220/240	
Coil Power	0.9W 1.2VA	0.9W 1.2VA	
Contact Material	AgCdO, AgSnO ₂	AgCdO, AgSnO ₂	
Contact Arrangement	2C, 3C, 4C	2C, 3C, 4C	
Contact transfer current (A)	10A	10A	
Contact rating	2C: 10A 220VAC/28VDC 3C: 7A 220VAC/28VDC 4C: 5A 220VAC/28VDC	2C: 10A 250VAC/30VDC 3C: 7A 250VAC/30VDC 4C: 5A 250VAC/30VDC	
Max. Switching Power	300W 2,500VA	300W 2,500VA	
Max. Switching Voltage	125VDC 250VAC	125VDC 250VAC	
Ambient temperature	-55°C ~ +70°C	-55°C ~ +70°C	
Dielectric Strength	Between Contacts	50Hz 1,000VAC	50Hz 1,000VAC
	Between Contact and Coil	50Hz 1,500VAC	50Hz 1,500VAC
Insulation Resistance	1,000MΩ	1,000MΩ	
Initial Contact Resistance	≤50mΩ	≤50mΩ	
Electrical Life (Operations)	2 x 10 ⁵	1 x 10 ⁵	
Mechanical Life (Operations)	2 x 10 ⁷	1 x 10 ⁷	
Weight (Approx.)	35g	37g	
Mounting Layout (Bottom View) (mm)			
Wiring Diagram (Bottom View)			
Cross Reference	Matsushita: HC Omron : MY TYCO : KHA/ZT	Matsushita: HC Omron : MY P&B : KHA/ZT	

FRM3W	FRM4	FRM7
1 & 2 poles: 28 x 22 x 35.5 3 poles : 31.3 x 28 x 35.5	41.2 x 28 x 36.5	50.5 x 33.5 x 37
ULus: E141516	ULus: E141516	
DC5, 6, 12, 24, 36, 48, 110 AC6, 12, 24, 36, 48, 120, 220/240	DC6, 12, 24, 48 AC6, 12, 24, 110, 220	DC3, 6, 12, 24, 48, 100, 110, 200 AC6, 12, 24, 48, 120, 220
0.9W 1.2VA	1.6W 2.5VA	1.9W 2.7VA
AgCdO, AgSnO ₂	AgCdO, AgNi	AgCdO, AgSnO ₂
1C, 2C, 3C	4C	1A, 2A
20A	10A	30A
1C: 20A 277VAC/28VDC 2C: 12A 250VAC/28VDC ½HP 125VAC 3C: 10A 250VAC/28VDC	10A 220VAC/28VDC	30A 277VAC 3HP 240VAC 1½HP 120VAC
560W 5,540VA	300W 2,500VA	8,310VA
30VDC 300VAC	30VDC 250VAC	277VAC
-40°C ~ +85°C	-25°C ~ +70°C	-55°C ~ +70°C
50Hz 1,000VAC	50Hz 1,500VAC	50Hz 2,000VAC
50Hz 1,500VAC	50Hz 2,000VAC	50Hz 4,000VAC
500MΩ	1,000MΩ	1,000MΩ
≤50mΩ	≤50mΩ	≤100mΩ
1 x 10 ⁵	1 x 10 ⁵	1 x 10 ⁵
2 x 10 ⁷	1 x 10 ⁷	1 x 10 ⁵
1 & 2 poles: 35g; 3 poles: 50g	70g	120g
Matsushita: HL Omron : LY TYCO : K10	Matsushita: HG Omron : LY4	Matsushita: HE Omron : G7L