# Stepper Motors

1.8° 2-phase stepper motors



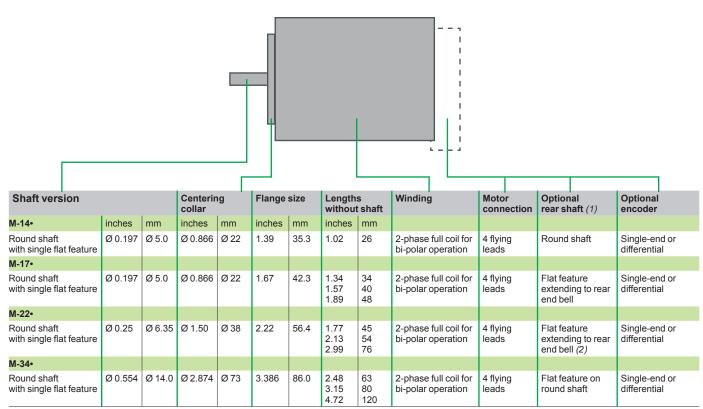
**NEMA 14** 1.8° 2-phase stepper motors



### **Stepper motors** 1.8° 2-phase

Product offer							
2-phase stepper motors		M-14•	M-17•	M-22•	M-34•		
		e	C.	Fa.	0.		
				an.			
Size	NEMA	14	17	23	34		
	NEMA oz-in	14 10	17 32 75				
Size Holding torque				23	34		
	oz-in	10	32 75	23 90 239	34 408 1090		
Holding torque  Number of full steps	oz-in	10 7	32 75	23 90 239	34 408 1090		

#### **Motor types**



<sup>(1)</sup> Optional rear shaft available except for NEMA23 2.4amp motors.

<sup>(2)</sup> Optional rear shaft on NEMA23 6.0amp motors is round without a flat feature.

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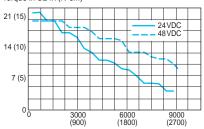
<b>Ambient conditions</b>	6	
Ambient temperature	°C	-25 +40
Max. installation height over m.s.l. without power loss	m	< 1000
Transport and storage temperature	°C	-25 +70
Relative humidity	%	15 85, no condensation allowed
Thermal class		130 (B)

Electrical and m	nechanical da	ata
NEMA14		M-1410-0.75•
Stack length		single
Phase current	amps	0.75
Holding torque	oz-in	10
	N-cm	7
Rotor inertia	oz-in-sec <sup>2</sup>	0.00017
	kg-cm <sup>2</sup>	0.012
Phase inductance	mH	4.0
Phase resistance	Ω	4.3
Weight	oz	4.2
	grams	120

#### **Speed-torque curves**

#### M-1410-0.75•

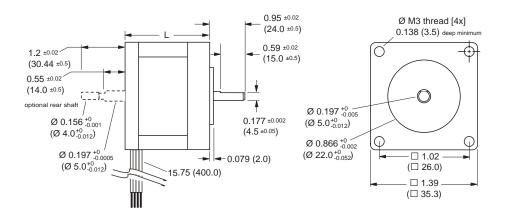


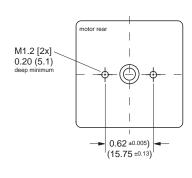


Speed in full steps per second (rpm)

### **NEMA 14 stepper motors** 1.8° 2-phase

#### **NEMA14**, dimensions in inches (mm)





M-1410-0.75•

1.02 (26)

# **NEMA 14 stepper motors** 1.8° 2-phase

References							
Example:	M -	1	4	1	0	- 0.75	S
Motor type M = stepper motor	M -	1	4	1	0	- 0.75	S
Flange size 14 = NEMA14 (36 mm)	M -	1	4	1	0	- 0.75	S
Motor length 10 = single stack	M -	1	4	1	0	- 0.75	S
Phase current 0.75 = 0.75 amp	M -	1	4	1	0	- 0.75	S
Shaft S = single shaft D = double shaft							S

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