

MT23AK

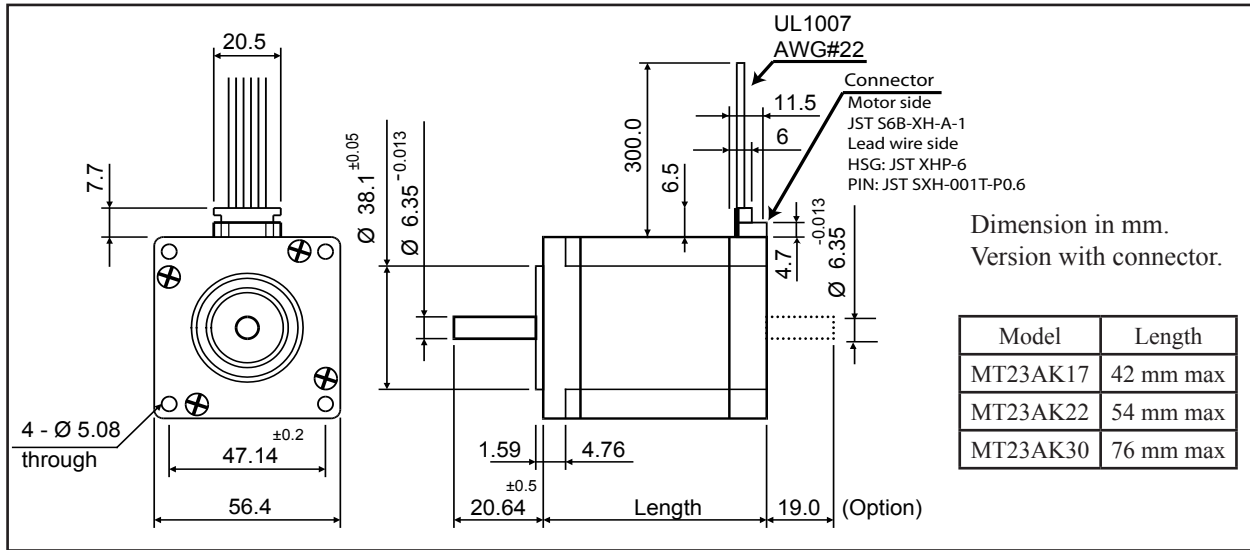
High torque, low noise 2.3” (56 mm) flange step motors

Specification	MT23AK17		MT23AK22			MT23AK30			
	004M4V	015M4V	015M4V	030M4VC	046M401	015M4V	035M4VC	046M4	
Phase voltage	<i>Vdc</i>	16.00	3.30	5.10	1.98	1.47	6.30	3.00	1.80
Phase current	<i>A</i>	0.40	1.50	1.50	3.30	4.60	1.50	3.50	4.60
Phase resistance	<i>Ohm ±10%</i>	40.00	2.20	3.40	0.60	0.32	4.20	0.85	0.40
Phase inductance	<i>mH±10%</i>	160.00	6.00	6.80	1.50	1.35	16.00	2.40	1.80
Bipolar holding torque	<i>Nm±10%</i>	0.400	0.580	0.784	0.794	0.921	1.600	1.675	1.700
Rotor inertia	<i>kg.cm²</i>	0.150	0.150	0.280	0.280	0.200	0.440	0.360	0.290
Rotor type		Low Noise	Low Noise	Low Noise	High Torque	High Torque	Low Noise	High Torque	High Torque
Detent torque	<i>mNm</i>	55	300	400	1600	196	500	300	250
Step angle		1.8° ± 5%							
Front shaft diameter	<i>mm</i>	6.35							
Rear shaft diameter (on request)		6.35							
Terminal or lead wires		lead wires of 300 mm with or without on board connector							
Ambient temperature	<i>°C</i>	- 20 ~ + 50							
Insulation class	<i>°C</i>	B, 130							
Protection	<i>IP</i>	30							
Dimensions	<i>mm</i>	56 x 56 x 42		56 x 56 x 54			56 x 56 x 76		
Weight	<i>kg</i>	0.450		0.680			1.050		

Note: Available also with different winding electrical ratings.

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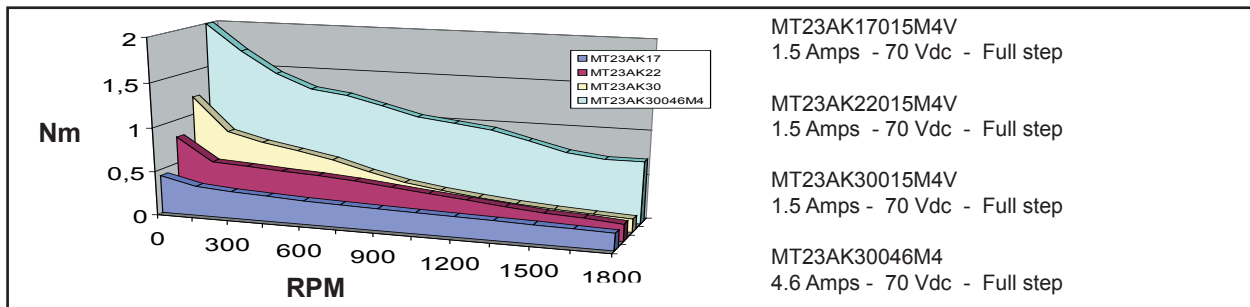
Mechanical drawing:



Connection diagram:

Wiring diagram	Connection	Driver connection	Lead color	
	Bipolar (4 leads with connector)	A	RED	
		A —	YELLOW	
		B	BLUE	
		B —	ORANGE	
		Bipolar parallel (8 leads motors)	A	RED & WHITE
			A —	YELLOW & BLACK
B			GREEN & BROWN	
B —			BLUE & ORANGE	
		Bipolar series (8 leads motors)	A	RED
			A —	YELLOW
	B		BROWN	
	B —		ORANGE	
	None		BLACK & WHITE	
	None		GREEN & BLUE	

Torque diagrams:



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