

**MT23AK**

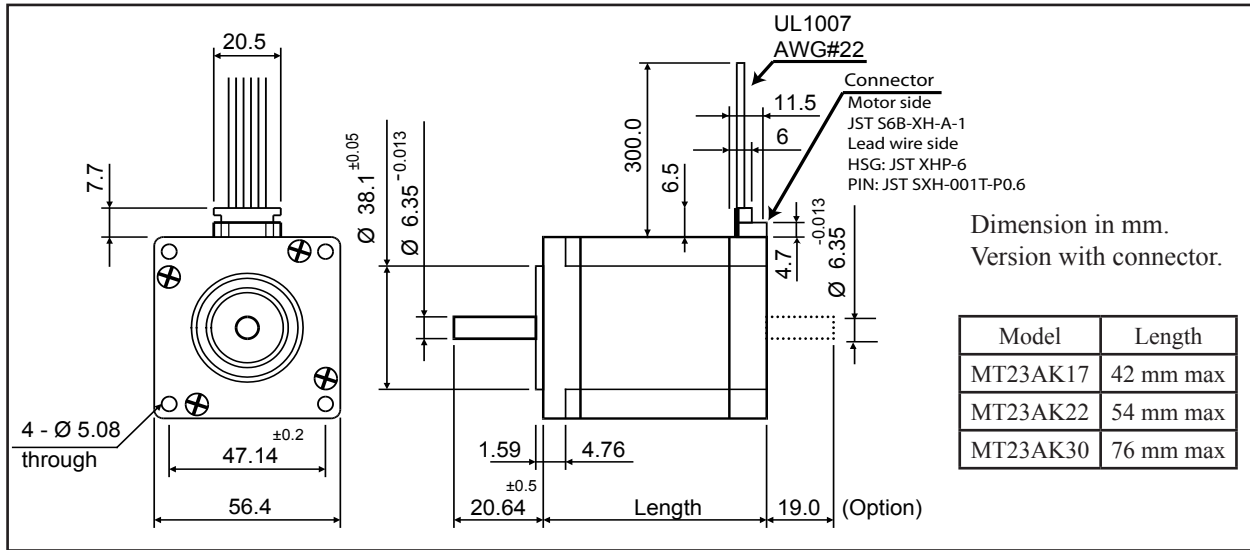
## High torque, low noise 2.3” (56 mm) flange step motors

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.cm<sup>2</sup></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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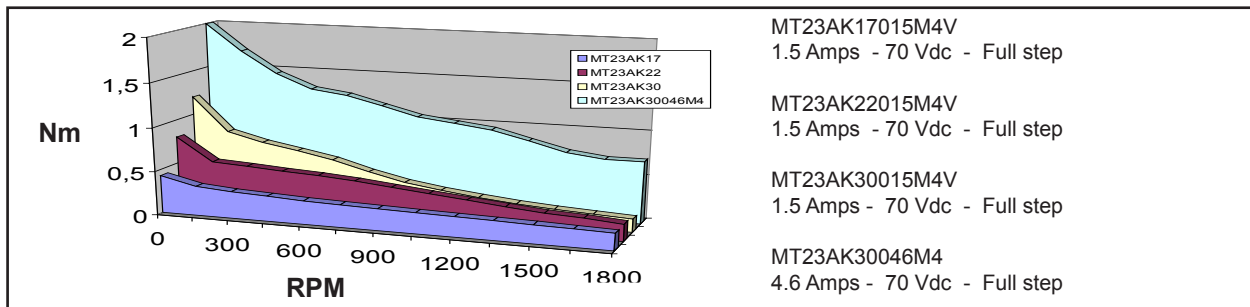
## Mechanical drawing:



## 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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