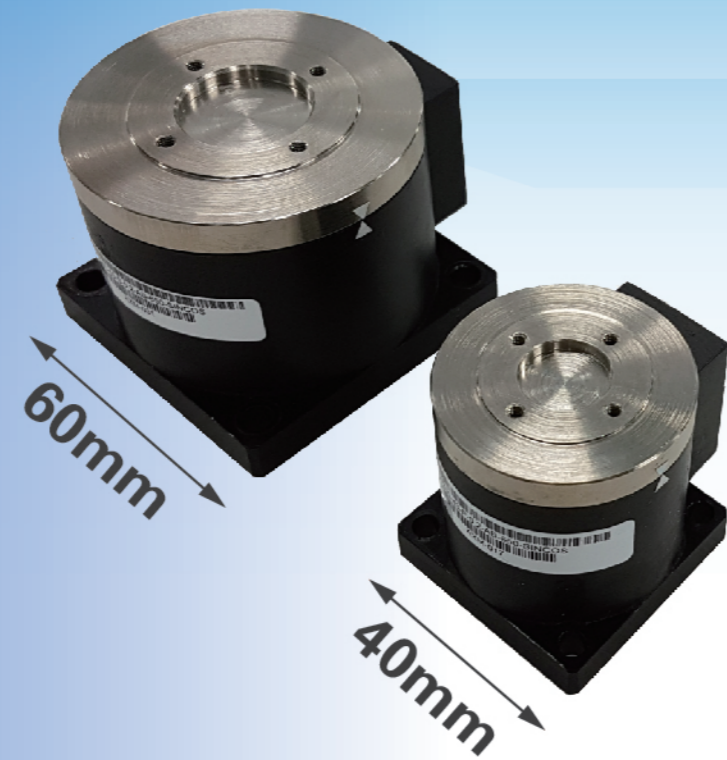


New Product

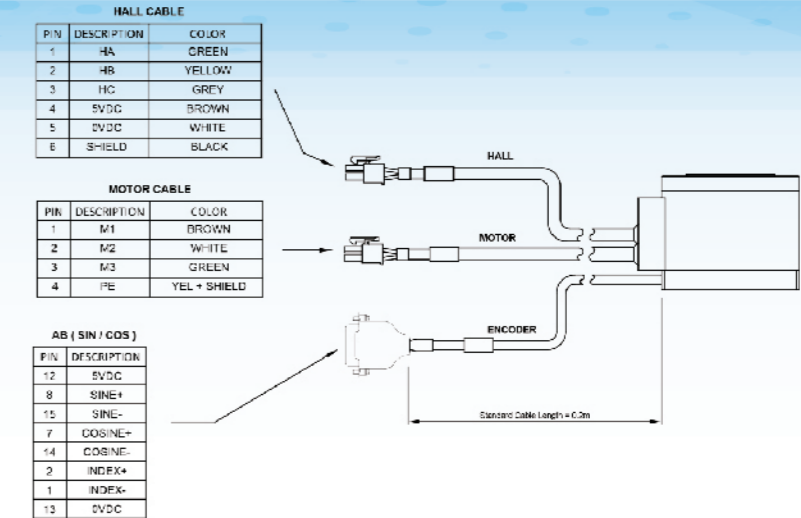
AXM40/AXM60



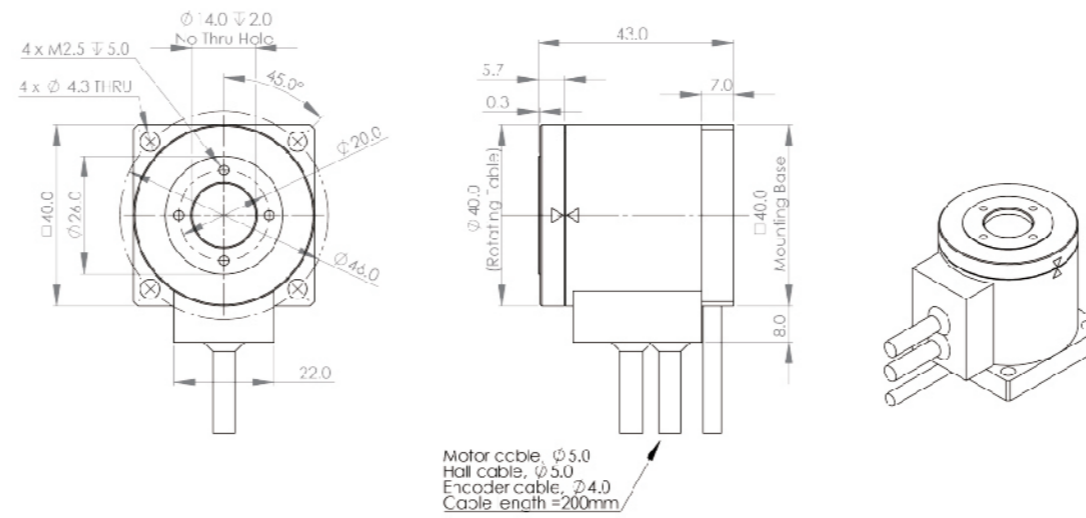
Features

- Direct drive, brushless motor fully integrated with encoder and bearing
- High torque, compact size
- Low cogging torque
- Low speed and high speed windings
- High resolution optical encoder feedback

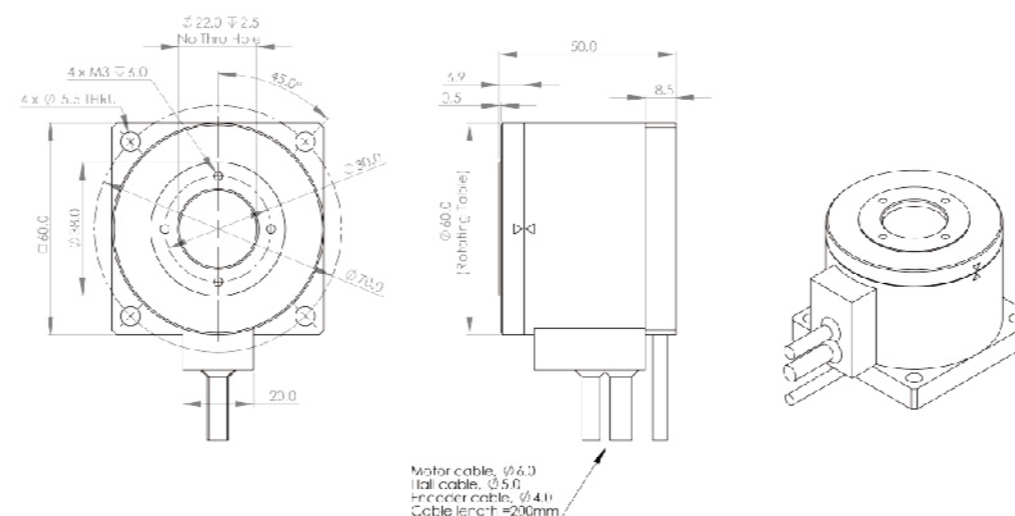
AXM motor and hall cable connection



AXM40-43 Series Dimensional Drawing



AXM60-50 Series Dimensional Drawing



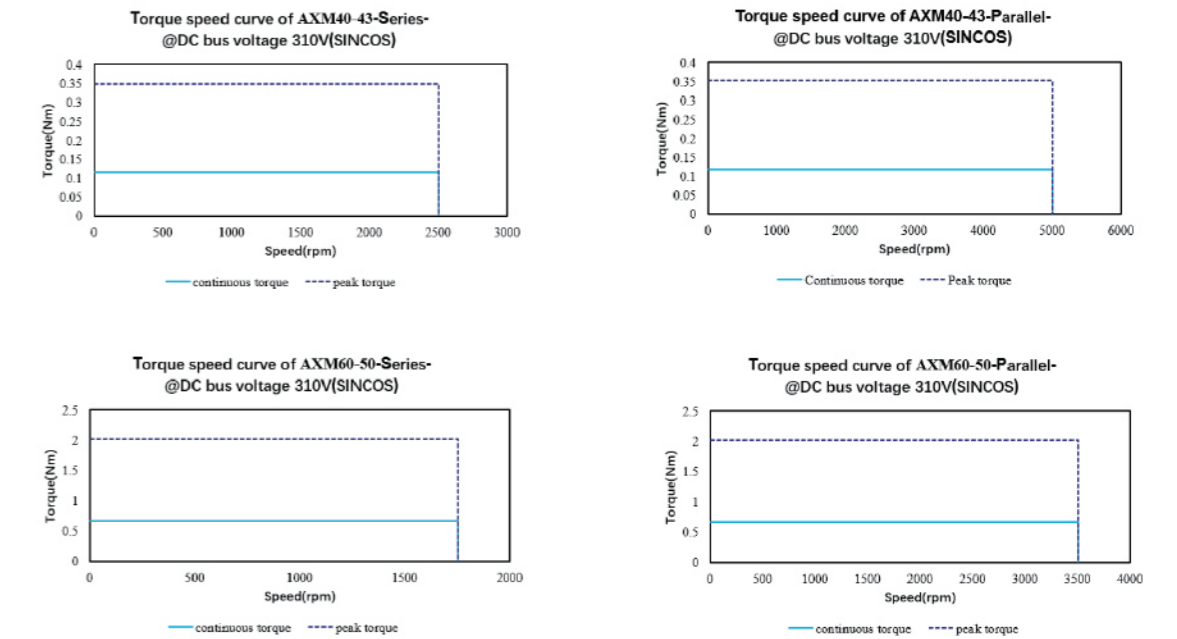
AXM40/AXM60 Motor Parameters

Model	Units	AXM40-43		AXM60-50	
		Series	Parallel	Series	Parallel
Table diameter	mm	40	40	60	60
Table height	mm	43	43	50	50
Continuous torque	Nm	0.12	0.12	0.68	0.68
Peak torque	Nm	0.35	0.35	2.03	2.03
Torque constant	Nm/A	0.093	0.047	0.450	0.225
Back EMF constant	V/rpm	0.0080	0.0040	0.0385	0.0192
Continuous current	Arms	1.25	2.50	1.50	3.00
Peak current	Arms	3.75	7.50	4.50	9.00
Continuous power dissipation	W	23.35	23.35	55.90	55.90
Max bus voltage	Vdc	310	310	310	310
Resistance ¹	ohms	7.70	1.93	12.80	3.20
Inductance ¹	mH	6.4	1.6	28.0	7.0
Electrical time constant	ms	0.83	0.83	2.19	2.19
Motor constant	Nm/Sqrt(W)	0.027	0.027	0.103	0.103
Mass	kg	0.24	0.24	0.64	0.64
Rotor Inertia	kg·m ²	0.0000118	0.0000118	0.0000738	0.0000738
Rec.max speed @230VAC ²	rpm	2500	5000	1750	3500
AB optical SINCOS encoder	lines	650	650	650	650
Accuracy after error mapping ³	arc sec	+/-20	+/-20	+/-20	+/-20
Repeatability ³	arc sec	+/-10	+/-10	+/-10	+/-10
Axial runout	um	25	25	25	25
Radial runout	um	25	25	25	25
Max axial load	N	20	20	50	50
Max moment load	Nm	0.3	0.3	0.7	0.7
Max axial load (inverted/wall mounting)	N	6	6	15	15
Max moment load (inverted/wall mounting)	Nm	0.1	0.1	0.2	0.2

¹ Terminal to terminal, at 25 Deg C.
² Limit by Bus Voltage and Encoder Output Frequency
³ Based on ABI SINCOS Encoder and 1024x interpolator

Note: Except dimensions, all the specifications in the table are in +/-10% of tolerance

Torque-Speed-Curve



Part Numbering

