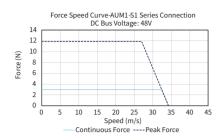
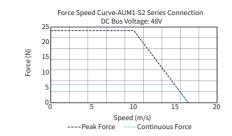
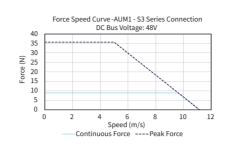
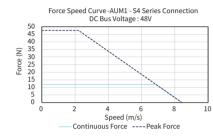
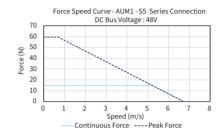
■ Force-Speed Curve





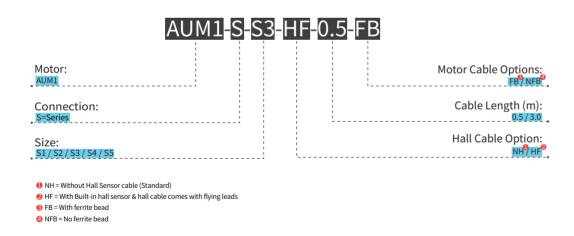






## **Part Numbering**

Motor Coil



■ Motor Track



## AUM2

				AUM2-S1	AUN	12-S2	AUN	12-S3	AUI	42-S4	AUN	12-S8
Performance Parameters		Symbol	Unit	Series	Series	Parallel	Series	Parallel	Series	Parallel	Series	Parallel
Continuous Force (NC) @100°C		Fcn	N	8.8	17.6	17.6	26.4	26.6	35.2	35.2	70.4	70.4
Peak Force		Fpk	N	44.0	88.0	88.0	132.0	132.8	176.0	176.0	352.0	352.0
Force Constant ±10%		Kf	N/Arms	5.5	11.0	5.5	16.5	8.3	22.0	11.0	44.0	22.0
Back EMF Constant ±10%		Ke	Vpeak/(m/s)	4.5	9.0	4.5	13.5	6.8	18.0	9.0	35.9	18.0
Motor Constant @25°C		Km	N/Sqrt(W)	2.5	3.6	3.4	4.4	4.5	5.0	4.9	7.1	7.1
Resistance (L-L) 25°C ±10%		R <sub>25</sub>	Ω	3.15	6.30	1.79	9.57	2.26	12.82	3.35	25.82	6.32
Inductance (L-L) ±40% <sup>€</sup>		L	mH	1.04	1.96	0.51	2.94	0.73	3.88	0.97	7.83	1.96
Electrical Time Constant		Τ <sub>e</sub>	ms	0.33	0.31	0.29	0.31	0.32	0.30	0.29	0.30	0.31
Continuous Current (NC) @100°C		Icn	Arms	1.6	1.6	3.2	1.6	3.2	1.6	3.2	1.6	3.2
Peak Current		I <sub>pk</sub>	Arms	8.0	8.0	16.0	8.0	16.0	8.0	16.0	8.0	16.0
Continuous Power Dissipation (NC) @100°C		Pcn	W	15.6	31.2	35.4	47.4	44.7	63.5	66.4	127.8	125.1
Max. Coil Temperature		tmax	°C	100	100	100	100	100	100	100	100	100
Thermal Dissipation Constant (NC)		Kthn	W/°C	0.2	0.4	0.5	0.6	0.6	0.8	0.9	1.7	1.7
Max. Bus Voltage		Ubus	Vdc	330	330	330	330	330	330	330	330	330
Magnetic Period		τ <sub>NN</sub>	mm	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Attraction Force		Fa	kN	0	0	0	0	0	0	0	0	0
Mechanical Parameters												
Coil Mass (NC)		m <sub>cn</sub>	kg	0.06	0.12	0.12	0.18	0.18	0.24	0.24	0.47	0.47
Coil Length (NC)		Lcn	mm	31.0	61.0	61.0	91.0	91.0	121.0	121.0	241.0	241.0
Track Mass Per Meter		Mtrack	kg/m	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90	3.90
Other Information												
Insulation Class		Class B (130°C)										
Protection Grade		IP00										
Compliance with Global Standards		RoHS, CE										
Ambient Temperature	Operation	0°C to 40°C (non-freezing)										
	Storage	-15°C to 70°C (non-freezing)										
Ambient Humidity	Operation	10%RH to 80%RH (non-condensing)										
	Storage	10%RH to 90%RH (non-condensing)										
Recommended Ambience		Indoor (no direct sunlight); No corrosive gas, inflammable gas, oil mist or dust.										

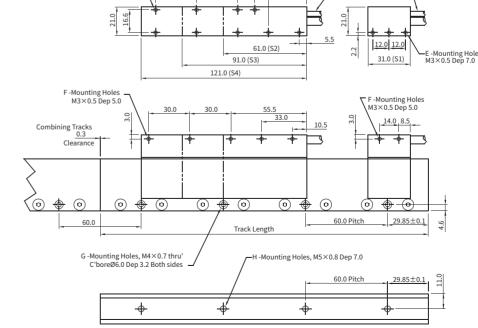
- (9) Measurement is taken at ambient temperature 25°C. Value depends on the thermal environment. Abbreviations: NC-Natural Cooling,
- AC-Air Cooling, WC-Water Cooling. Resistance is measured by DC current with standard 0.5 m cable.

M3×0.5 Dep 7.0

Inductance is measured by current frequency of 1 kHz. The variation range of AUM inductance is ±40% because three phase inductances are different. The value in the catalog is the average between the maximum and minimum values. For each phase, the variation range is ±20%.
The contents of datasheet are subject to change without prior notice.

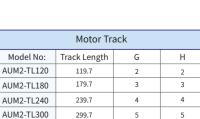
28.0

■ Dimension



High-Flex Motor Cables Ø6.0 & Ø3.8 Min. Bending Radius =60.0 (Refer to Cable Wiring Diagram for details)		Motor C	oil	
	Model No:	Coil Length	Е	F
	AUM2-S1	31.0	3	2
	AUM2-S2	61.0	5 7	5
1 12.0 12.0	AUM2-S3	91.0		7
31.0 (S1) E -Mounting Holes M3×0.5 Dep 7.0	AUM2-S4	121.0	9	9
- The Market Bep 110	AUM2-S8	241.0	17	17

21.0



22.0	*				
Motor Track					
Model No:	Track Length	G			
AUM2-TL120	119.7	2			

031