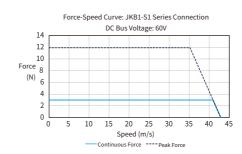
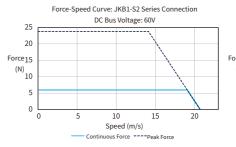
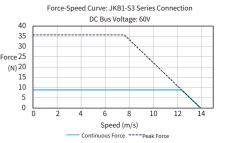
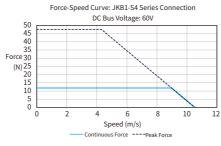
JKB1 Series: Thrust Graph

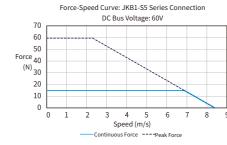
Linear Motor Specifications Overview











Specification Parameters

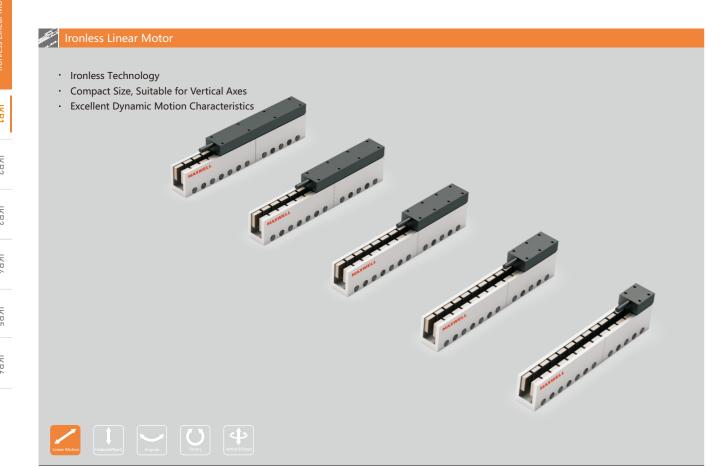
				JKB1-S1	JKB1-S2	JKB1-S3	JKB1-S4	JKB1-S5	
Performance Parameters		Symbol	Unit	Series	Series	Series	Series	Series	
Continuous Thrust (Natural Cooling) @100°C		Fcn	N	3.0	6.0	8.9	11.9	14.9	
Peak Thrust		Fpk	N	11.9	23.8	35.7	47.6	59.5	
Force Constant ±10%		Kf	N/Arms	1.75	3.50	5.25	7.00	8.75	
Back EMF Constant ±10%		Ke	Vpeak/(m/s)	1.4	2.9	4.3	5.7	7.1	
Motor Constant @25°C		Km	N/Sqrt(W)	1.4	2.0	2.4	2.8	3.2	
Phase-to-Phase Resistance @25°C ±10%		R ₂₅	Ω	1.11	2.18	3.18	4.18	5.18	
Phase-to-Phase Inductance ±50% [€]		L	mH	0.15	0.30	0.44	0.59	0.72	
Electrical Time Constant		τ_{e}	ms	0.14	0.14	0.14	0.14	0.14	
Continuous Current (Natural Cooling) @100°C		Icn	Arms	1.7	1.7	1.7	1.7	1.7	
Peak Current		I _{pk}	Arms	6.8	6.8	6.8	6.8	6.8	
Continuous Thermal Power (Natural Cooling) @ 100°C		Pcn	W	6.20	12.18	17.77	23.32	28.94	
Max. Coil Temperature		t _{max}	°C	100	100	100	100	100	
Thermal Dissipation Constant (Natural Cooling)		Kthn	W/°C	0.1	0.2	0.2	0.3	0.4	
Max. Bus Voltage		Ubus	Vdc	60	60	60	60	60	
Electromagnetic Period		τ_{NN}	mm	21.0	21.0	21.0	21.0	21.0	
Magnetic Attraction Force		Fa	kN	0	0	0	0	0	
Mechanical Parameters									
Coil Mass (Natural Cooling)		m_{cn}	kg	0.03	0.05	0.08	0.10	0.13	
Coil Length (Natural Cooling)		Lcn	mm	22.0	43.0	64.0	85.0	106.0	
Magnetic Track Mass (per meter)		Mtrack	kg/m	2.37	2.37	2.37	2.37	2.37	
Other Information									
Insulation Level		Class B (130°C)							
Protection Grade		IP00							
Compliance Standards		RoHS, CE							
Ambient Temperature	Operating	0°C - 40°C (no icing)							
	Storage	-15°C to 70°C (no icing)							
Ambient Humidity Operating Storage		10% to 80% RH (no condensation)							
		10% to 90% RH (no condensation)							
Recommended Operating Envi	ronment			Free from cor	Indoor (no direct rosive gases, flammal		dust		

Measured at 25°C room temperature, depending on heat dissipation conditions.

Resistance measured with DC current, including 0.5m standard cable.

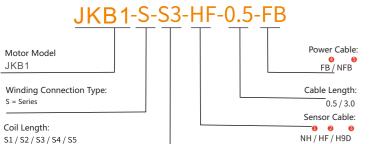
🔞 Inductance measured at 1kHz. The wide tolerance range (±50%) for JKB series is due to differences in three-phase inductance. The catalog value represents the average of maximum and minimum values, with each phase having ±25% tolerance.

Relevant parameters are subject to change without prior notice.



• Model Number Designation System

Mover Model





Stator Model

▶ 0769-83713917

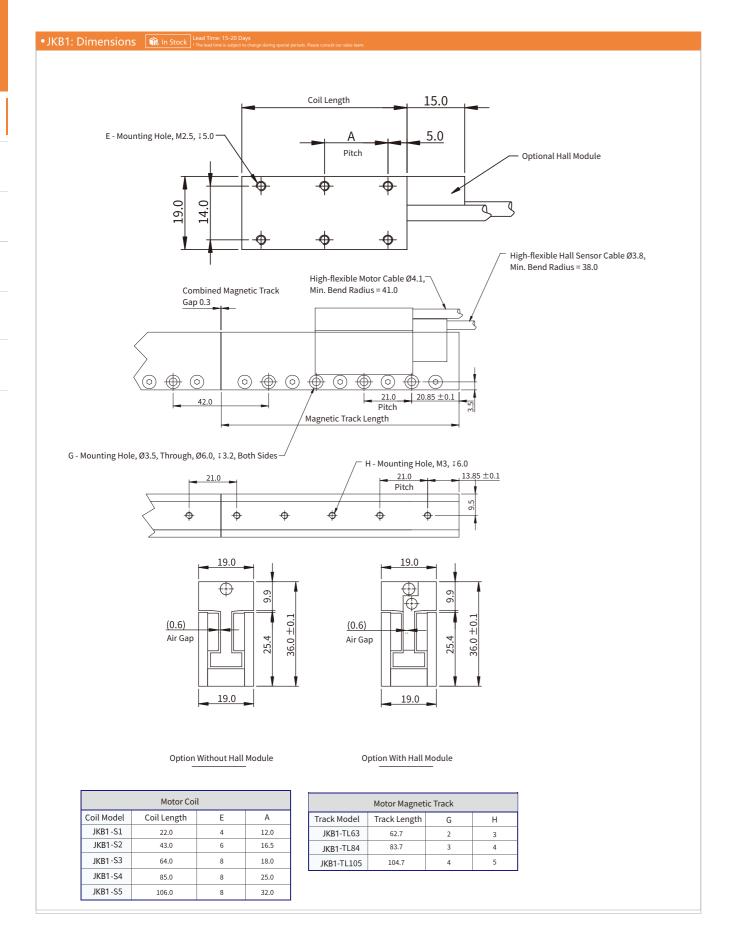
JKB1

S = Series

 NH - No integrated Hall sensor, flying leads HF - Integrated Hall sensor, flying leads 6 H9D - Integrated Hall sensor, 9-pin D-Sub co 4 FB - With ferromagnetic band, flying leads 6 NFB - Without ferromagnetic band, flying leads



▶ 0769-83713917



MEMO

≥ 276053854@qq.com