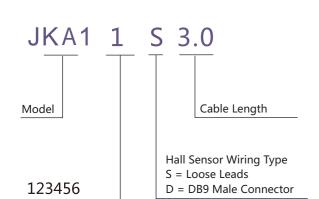
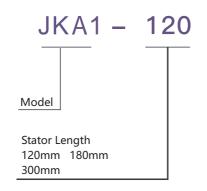
Model Number Designation System

Mover Model

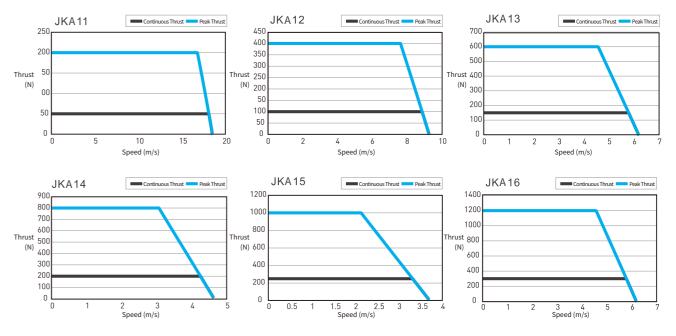


Stator Model



JKA1 Series: Thrust Graph

Linear Motor Specifications Overview



Specification Parameters

Linear Motor Specifications: JKA1 Series									
	Symbol	Unit	JKA11	JKA12	JKA13	JKA14	JKA15	JKA16	
Continuous Thrust	F _c	N	50	100	150	200	250	300	
Continuous Current	I _c	A_{rms}	2.7	2.7	2.7	2.7	2.7	5.4	
Peak Thrust [1s]	F,	N	200	400	600	800	1000	1200	
Peak Current [1s]	I _p	A_{rms}	10.8	10.8	10.8	10.8	10.8	21.7	
Thrust Constant	K_{f}	N/A_{rms}	18.5	37.0	55.4	73.9	92.4	55.4	
Max. Coil Temperature	T _{max}	°C	120						
Electrical Time Constant	K_{e}	ms	0.85						
Resistance [Line-to-Line, 25°C]	R ₂₅	Ω	1.8	3.6	5.4	7.1	8.9	2.7	
Inductance [Line-to-Line]	L	mH	1.5	3.1	4.6	6.1	7.6	2.3	
Pole Pitch	2τ	mm	60						
Motor Cable Bend Radius	R_{bend}	mm	37.5	37.5	37.5	37.5	37.5	37.5	
Back EMF Constant [Line-to-Line]	K_v	$V_{rms}/(m/s)$	10.7	21.3	32.0	42.7	53.3	32.0	
Motor Constant [25°C]	K _m	N/√W	11.3	16.0	19.5	22.6	25.2	27.6	
Thermal Resistance	R _{th}	°C/W	3.67	1.83	1.22	0.92	0.73	0.61	
Thermal Sensor Switch			PTC						
Max. DC Bus Voltage		V	330						
Mover Mass	$M_{\rm f}$	kg	0.30	0.60	0.90	1.20	1.50	1.80	
Stator Unit Mass	M_s	kg/m	15.8						
Mover Length / Value n	L _f	mm	61	121/3	181/5	241/7	301/9	361/11	
Mover Height / Value m	h	mm	79	79/3	79/4	79/6	79/7	79/9	
Stator Height	H_s	mm		75.3					
Stator Width	W_s	mm		38.7					
Stator Length / Value N	L _s	mm		120mm/N=2, 180mm/N=3, 300mm/N=5					
Total Installation Height	Н	mm		93					
Heat Sink Dimensions	-	mm		210x210x10					
Notes:									

- Notes.

 1. All data in this table are measured at an ambient temperature of 25°C without forced cooling.

 2. Thermal resistance data is measured with the mover mounted on the heat sink.

 3. Except for dimensional specifications, all other specifications have a tolerance of $\pm 10\%$.

- 4. We reserve the right to make changes. Please refer to the customer-approved drawing for final specifications.

MEMO

Linear Motor Specifications Overview