• Mover Model Number Designation System

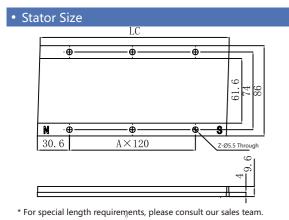
MK	2	Α			
Series	Mover Width	Mover Length			
MK	86mm	1:118mm 2:223mm			
		3:328mm 4:433mm			

• Stator Model Number Designation System

DMK	86 -	L120		
Series	Stator Width	Stator Length		
MK	86mm	L120mm		

Stator Model	Length LC	Width	Height	Α	Z	Pole Pitch	Weight
Unit	mm	mm	mm	PCS	PCS	mm	Kg/m
MK2-120	120	86	9.6	1	4	30	4.58
MK2-180	180	86	9.6	2	6	30	4.58
MK2-300	300	86	9.6	4	10	30	4.58

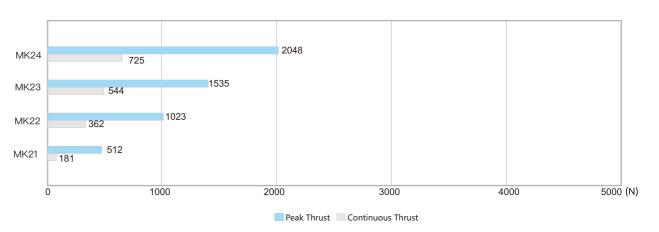
The coils of the MK2 series can be freely paired with MK2-120, MK2-180, or MK2-300.





L180mm

▶ www.maxwelldg.com/



Specification Parameters

	Symbol	Unit	MK21	MK22	MK23	MK24	
Continuous Thrust	F _c	N	181	362	544	725	
Continuous Current	I _c	A _{rms}	2.0	3.9	5.9	7.8	
Peak Thrust [1s]	Fp	N	512	1023	1535	2048	
Peak Current [1s]	l _p	A _{rms}	5.9	11.8	17.6	23.5	
Limiting Thrust [0.5s]	F _u	N	670	1341	2011	2682	
Limiting Current [0.5s]	I _u	A _{rms}	9.8	19.6	29.4	39.2	
Thrust Constant	K_{f}	N/A _{rms}	92.5	92.5	92.5	92.5	
Attractive Force Between Mover & Stator	Fa	N	963	1926	2888	3851	
Max. Coil Temperature	T _{max}	°C	120				
Electrical Time Constant	K_{e}	ms	4.6	4.9	4.9	4.6	
Resistance [Line-to-Line, 25°C]	R ₂₅	Ω	13.8	6.8	4.6	3.5	
Resistance [Line-to-Line, 120°C]	R ₁₂₀	Ω	19.0	9.4	6.3	4.8	
Inductance [Line-to-Line]	L	mH	64.0	33.0	22.4	16.0	
Pole Pitch	2τ	mm	30				
Motor Cable Bend Radius	R _{bend}	mm	69				
Back EMF Constant [Line-to-Line]	K,	V _{ms} /[m/s]	53.4	53.4	53.4	53.4	
Motor Constant [25°C]	K_m	N/√W	20.3	28.9	35.2	40.6	
Thermal Resistance	R _{TH}	°C/W	0.87	0.44	0.29	0.22	
Thermal Time Constant	t_{\scriptscriptstyleTH}	s	2830	4060	5080	5080	
Thermal Sensor Switch	-	_	3 PNC SNM120 In Series				
Max. Operating Voltage	_	V _{DC}		600			
Mover Mass	$M_{\rm f}$	kg	1.1	2.2	3.3	1.9	
Stator Unit Mass	$M_{\mathtt{s}}$	kg/m	4.58	4.58	4.58	4.58	
Total Installation Height	Н	mm	34	34	34	34	

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▶ 0769-83713917

