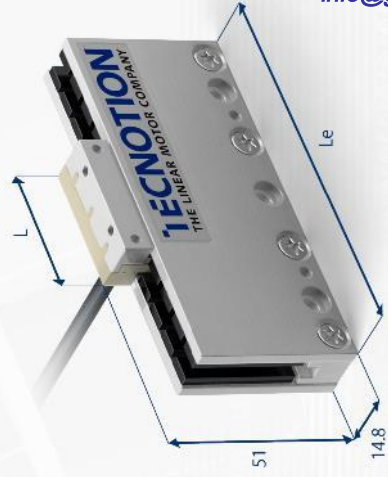


Parameter	Remarks	Symbol	Unit	UC3	UC6
Performance					
Motor type, max voltage ph-ph				3-phase synchronous Ironless, 60V _{dc}	
Peak Force @ 20°C/s	magnet @ 25°C	F _p	N	36	72
Continuous Force*	coils @ 80°C	F _c	N	10	20
Maximum Speed**	@ 60 V	V _{max}	m/s	5	5
Motor Force Constant	coils @ 25°C	K	N/A _{rms}	11.4	11.4
Motor Constant	coils @ 25°C	S	N ² /W	9.2	18.3
Peak Current	magnet @ 25°C	I _p	A _{rms}	3.1	6.2
Maximum Continuous Current	coils @ 80°C	I _c	A _{rms}	0.87	1.75
Back EMF Phase-Phase		B _{emf}	V _{rms} / m/s	9.3	9.3
Resistance per Phase	coils @ 25°C ex. cable	R _f	Ω	4.7	2.4
Induction per Phase	I < 0.6 Ip	L _r	mH	0.75	0.38
Electrical Time Constant	coils @ 25°C	τ _e	ms	0.16	0.16
Maximum Continuous Power Loss	all coils	P _c	W	13	26
Thermal Resistance		R _{th}	°C/W	3.6	1.8
Thermal Time Constant	minimum	τ _{th}	s	25	25
Temperature Sensors				none	none
Coil Unit Weight	ex. cables	M	kg	0.031	0.062
Coil Unit Length	ex. cables	L	mm	34	67
Motor Attraction Force		F _a	N	0	0
Magnet Pitch NN		T	mm	16.5	16.5
Cable Weight		m	gr/m	7.0	7.0
Cable Type (Power)	length 1 m	d	mm (AWG)	4.3 (24)	
Cable Type (Sensor)				N/A	
Cable Life (Power FLEX)	minimum			15,000,000 cycles	
Bending Radius Static	minimum			5x cable diameter	
Bending Radius Dynamic	minimum			8x cable diameter	

All specifications ±10%



UC3 in 99mm magnet yoke shown

Magnet yoke dimensions			
Le (mm)	66	99	264
M4 bolts	2	3	8
Mass (kg/m)			3.2
Magnet yokes can be butted together.			

*Max. continuous force depends on the thermal resistance, cooling surface and ambient temperature of your application. Download our simulation tool to check the motor's thermal behavior in the application.
** Actual values depend on bus voltage. Please check the FV diagram in our simulation tool.

