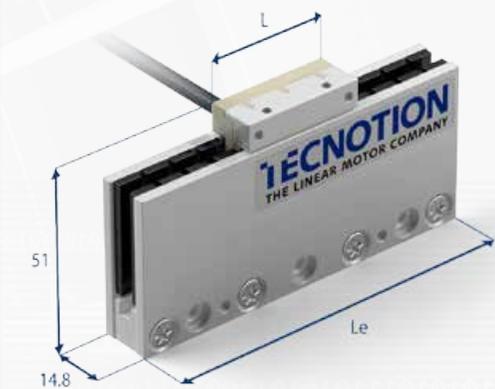


	Parameter	Remarks	Symbol	Unit	UC3 + UC3 inline	UC6
Performance	Motortype, max voltage ph-ph				3-phase synchronous Ironless, 45V _{ac rms} (60V _{dc})	
	Peak Force @ 20°C/s increase	magnet @ 25°C	F _p	N	36	72
	Continuous Force*	coils @ 80°C	F _c	N	10	20
	Maximum Speed**	@ 60 V	v _{max}	m/s	5	5
	Motor Force Constant	mount. sfc. @ 20°C	K	N/A _{rms}	11.4	11.4
	Motor Constant	coils @ 25°C	S	N ² /W	9.2	18.3
Electrical	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 _{peak}		B _{emf}	V/m/s	9.3	9.3
	Resistance per Phase*	coils @ 25°C ex. cable	R _{ph}	Ω	4.7	2.4
	Induction per Phase		L _{ph}	mH	0.75	0.38
	Electrical Time Constant*	coils @ 25°C	τ _e	ms	0.16	0.16
Thermal	Maximum Continuous Power Loss	all coils	P _c	W	13	26
	Thermal Resistance	coils to mount. sfc.	R _{th}	°C/W	3.6	1.8
	Thermal Time Constant*	up to 63% max. coiltemp.	τ _{th}	s	25	25
	Temperature Sensors				none	none
Mechanical	Coil Unit Weight	ex. cables	W	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		τ	mm	16.5	16.5
	Cable Mass		m	kg/m	0.07	0.07
	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	

* These values are only applicable when the mounting surface is at 20°C and the motor is driven at maximum continuous current. If these values differ in your application, please check our simulation tool.

** Actual values depend on bus voltage. Please check the F/v diagram in our simulation tool.

*** Depending on Bending Radius, Velocity and Acceleration.



UC3 in 99mm magnet yoke shown

Approvals



Magnet yoke dimensions

Le (mm)	66	99	264
M4 bolts	2	3	8
Mass (kg/m)	3.2		

Magnet yokes can be butted together.

All specifications ±10%

