

Tecnotion presents its full range of UC-motors

Tecnotion's linear UC-motors are based upon the ironless principle. They stand out for their great dynamics and for the fact that they show no 'cogging'.

For the production of the UC-motors, Tecnotion applies the unique knowledge and manufacturing techniques the company has developed in close cooperation with its partners within the Philips organisation. The result is a range of high quality and very reliable linear motors which are available on competitive conditions.

Now available with 1m flexcable.



Very small and lightweight coil unit

This leaflet gives you the UC's vital technical data. For additional information, please contact

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Dimensions Magnettracks

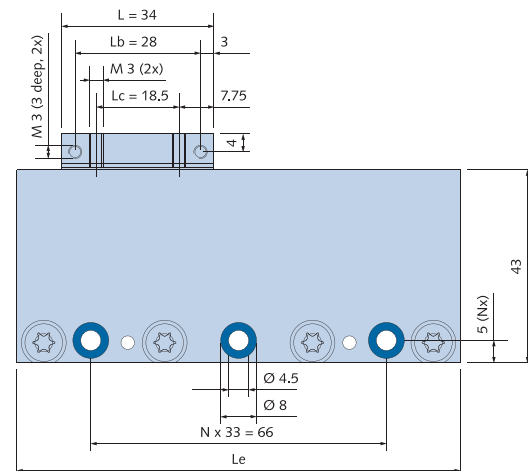
Le	66 mm	99 mm	264 mm
M4 bolts	2	3	8
Mass	3.2 kg/m		

Magnetplates can be butted together.

Specifications

	Symbol	Unit	UC 3	UC 6
Motortype, max. voltage ph-ph			3-phase synchronous Ironless, 60Vdc	
Peak Force (temp. rise 20°C/s) magnet @25°C	Fp	N	36	72
Peak Current	Ip	Arms	3.1	6.2
Continuous force * coils @80°C	Fc	N	10	20
Maximum Continuous Current coils @80°C	Ic	Arms	0.87	1.75
Max. Continuous Power loss All coils	Pc	W	13	26
Maximum speed @60Vdc	vmax	m/s	5	5
Motor Force Constant	K	N/Arms	11.4	11.4
Back EMF phase-phase peak	Bemf	V / m/s	9.3	9.3
Motor Constant coils@25°C	S	N ² /W	9.2	18.3
Magnet Pitch NN	τ	mm	16.5	
Resistance per phase coils@25°C	Rf	Ω	4.7	2.4
Induction per phase	Lf	mH	0.75	0.38
Electrical time constant coils@25°C	τe	ms	0.16	0.16
Thermal Resistance	Rth	°C/W	3.6	1.8
Motor Attraction Force	Fa	N	0	
Length of Coil unit	L	mm	34	67
Weight of Coil unit Ex cable	M	gr	31	62
Weight of Cable	m	gr/m	7.0	
Temperature Sensor			None	

* Depends on application: cooling surface, air speed and ambient temperature.



	UC 3	UC 6
L	34	67
Lb	28	59
Lc	18.5	51.5

