

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.



Very small and lightweight coil unit

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	te	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.

TECNOTION®

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

Tecnotion BV

Marketing & Sales Department

P.O.Box 23, 7600 AA Almelo

The Netherlands

Tel. +31 (0)546 534666

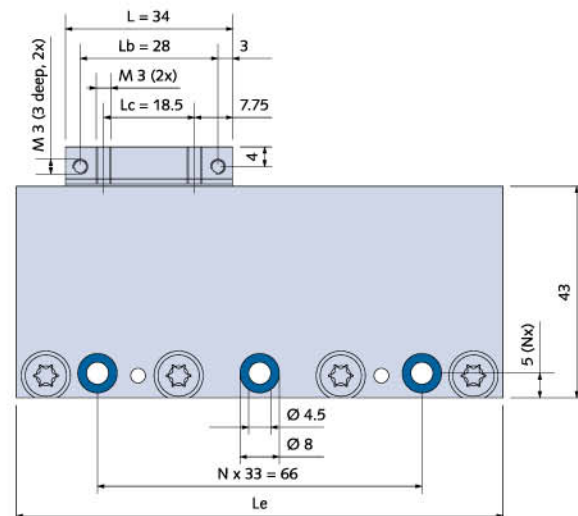
Fax +31 (0)546 534699

E-mail sales@tecnotion.com

Website www.tecnotion.com

Dimensions Magnettracks

Le	66 mm	99 mm	264 mm
M4 bolts	2	3	8
Mass	3.2 kg/m		
Magnetplates can be butted together.			



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

