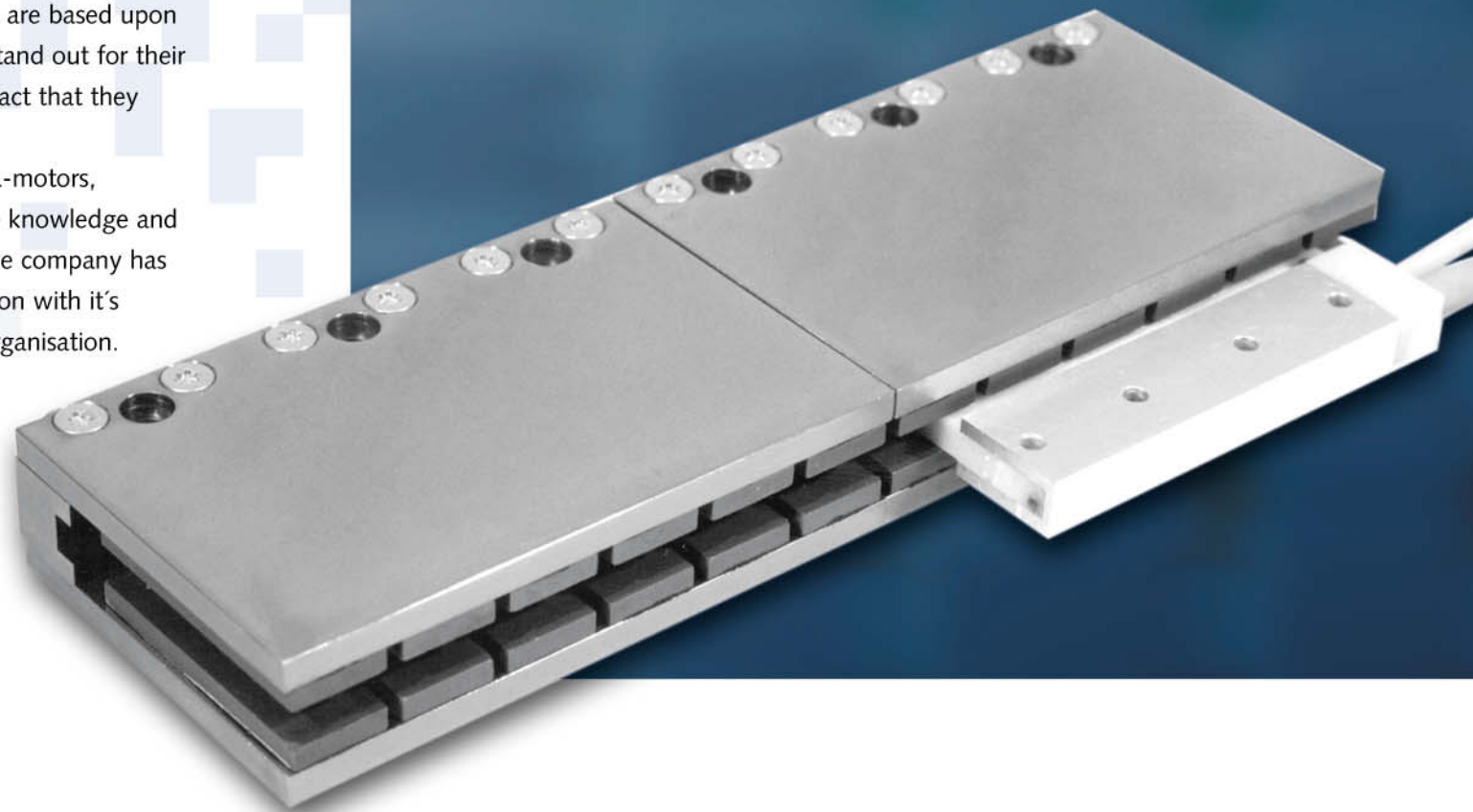


Tecnotion presents its full range of UL-motors

Tecnotion's linear UL-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 UL-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.



Specifications

	Symbol	Unit	UL 3		UL 6		UL 9		UL 12		
			N	S	N	S	N	S	N	S	
Motortype, max. voltage ph-ph			3-phase synchronous Ironless, 300Veff								
Peak Force (temp. rise 20°C/s) magnets @25°C	Fp	N	240		480		720		960		
Peak Current	Ip	Arms	3.5	8.7	7.1	17.5	10.6	26.2	14.1	34.9	
Continuous force* coils @110°C	Fc	N	35..70		70..140		105..210		140..280		
Maximum Continuous Current coils @110°C	Ic	Arms	1.03	2.55	2.06	5.1	3.09	7.6	4.1	10.2	
Max. Continuous Power loss All coils	Pc	W	67		134		200		270		
Maximum speed @300V	vmax	m/s	5	12	5	12	5	12	5	12	
Motor Force Constant	K	N/Arms	68	27.5	68	27.5	68	27.5	68	27.5	
Back EMF phase-phase peak	Bemf	V / m/s	55.5	22.5	55.5	22.5	55.5	22.5	55.5	22.5	
Motor Constant coils@25°C	S	N ² /W	97		195		290		390		
Magnet Pitch NN	τ	mm	42		42		42		42		
Resistance per phase coils@25°C	Rf	Ω	15.9	2.6	8.0	1.28	5.3	0.85	4.0	0.64	
Induction per phase	Lf	mH	13	2.0	6.5	1.0	4.2	0.7	3.2	0.5	
Electrical time constant coils@25°C	te	ms	0.8		0.8		0.8		0.8		
Thermal Resistance internal	Rth	°C/W	1.3		0.65		0.43		0.32		
Motor Attraction Force	Fa	N	0		0		0		0		
Length of Coil unit	L	mm	106		190		274		358		
Weight of Coil unit Ex cable	M	gr	250		470		690		910		
Weight of Cables	m	gr/m	90		90		90		105		
Temperature Sensor			PTC 1kΩ and KTY 21								

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

TECNOTION®

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

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Dimensions Magnettracks

Le	126 mm	168 mm	210 mm	546 mm
M5 bolts	3	4	5	13
Mass	11.2 kg/m			
Magnetplates can be butted together.				

