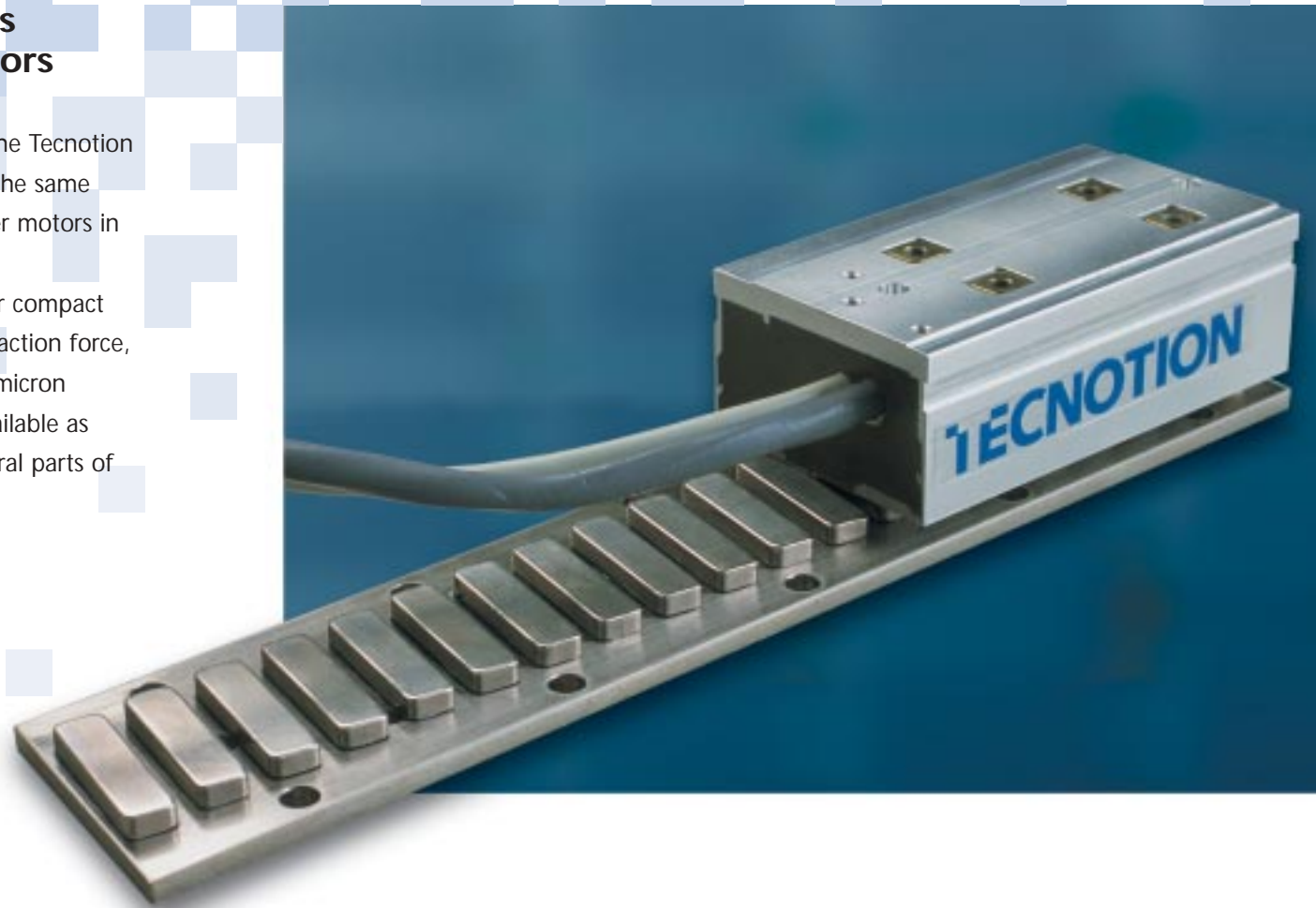


Tecnotion presents its full range of TM-motors

The TM-motor is the smallest of the Tecnotion family of iron core motors. It has the same outstanding properties as the other motors in this family.

The TM-motors stand out for their compact construction, lightweight, low attraction force, fast acceleration, high speed and micron operational accuracy. They are available as stand-alone products and as integral parts of complete linear drive systems.



Specifications

	Symbol	Unit	TM 3 S	TM 6 S
Motortype, max. voltage ph-ph			3-phase synchronous Ironcore, 300 Veff	
Ultimate Force 3 seconds @25°C	Fu	N	120	240
Ultimate Current	Iu	Arms	3.9	7.9
Peak Force 10 seconds @25°C	Fp	N	105	210
Peak Current	Ip	Arms	3.0	6.0
Continuous Force aircooled * coils @100°C	Fca	N	30..60	60..120
Max. Continuous Current * coils @100°C	Ica	Arms	1.6	3.1
Max. Continuous Power Loss all coils	Pc	W	55	110
Maximum speed @300V	Vmax	m/s	8	8
Motor Force Constant I < 0.6 Ip	K	N/Arms	39	39
Back EMF	Bemf	V / m/s	32	32
Motor Constant coils @25°C	S	N ² /W	90	180
Magnet Pitch NN	τ	mm	24	24
Resistance per phase coils @25°C	Rf	Ω	5.6	2.8
Induction per phase I < 0.6 Ip	Lf	mH	35	18
Electrical time constant coils @25°C	τe	ms	6.5	6.5
Thermal Resistance	Rth	°C/W	1.4	0.70
Motor Attraction Force	Fa	N	270	490
Length of Coil unit	L	mm	93	143
Weight of Coil unit ex cable	M	gr	550	900
Weight of Cables	m	gr/m	105	105
Temperature Sensor			PTC 1kΩ and KTY 21	

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

This leaflet gives you the TM'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 Magnetplates

Le	96 mm	144 mm	384 mm
M5 bolts	4x	6x	16x
Mass	2.1 kg/m		

Magnetplates can be butted together.

