Tecnotion presents its full range of UM-motors

Tecnotion's linear UM-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 UM-motors, Tecnotion applies the unique knowledge and manufacturing techniques the company has developed in close cooperation with it's 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	U٨	۸ 3	UM 6		UM 9		UM 12	
			N	S	N	S	N	S	N	S
				3-phase synchronous Ironless, 300Veff						
magnet @25°C	Fp	N	100 200		300		400			
	lp	Arms	2.8	5.0	5.5	10.0	8.3	15.0	11.0	20.0
coils @110°C	Fc	N	2229 4458		6687		88116			
coils @110°C	lc	Arms	0.8	1.5	1.6	2.9	2.4	4.4	3.2	5.8
All coils	Pc	W	47 95		142		190			
@300V	vmax	m/s	10	18	10	18	10	17	10	16
	K	N/Arms	36.3	19.9	36.3	19.9	36.3	19.9	36.3	19.9
	Bemf	V / m/s	30	16	30	16	30	16	30	16
coils@25°C	S	N ² /W	24 48 71			9	95			
	τ	mm	30							
coils@25°C	Rf	Ω	18.5	5.5	9.3	2.8	6.2	1.8	4.6	1.4
	Lf	mH	6	1.8	3	0.9	2	0.6	1.5	0.4
coils@25°C	τе	ms	0.35		0.35		0.35		0.35	
	Rth	°C/W	1.8		0.90		0.60		0.45	
	Fa	N	0							
	L	mm	78		138		198		258	
Ex cable	М	gr	84		162		240		318	
	m	gr/m				8	0			
					PT	C 1kΩ a	nd KTY	21		
	coils @110°C coils @110°C All coils @300V coils@25°C coils@25°C Ex cable	magnet @25°C Fp Ip coils @110°C Fc coils @110°C Ic All coils Pc @300V vmax K Bemf coils@25°C S t coils@25°C Rf Lf coils@25°C te Rth Fa L Ex cable M m	magnet @25°C Fp N lp Arms coils @110°C Fc N coils @110°C Ic Arms All coils Pc W @300V vmax m/s K N/Arms N/Arms Bemf V / m/s V / m/s coils@25°C S N²/W t mm mm coils@25°C Rf Ω Lf mH co/W Fa N N L mm gr m gr/m	magnet @25°C Fp N 10 lp Arms 2.8 coils @110°C Fc N 22. coils @110°C Ic Arms 0.8 All coils Pc W 4 @300V vmax m/s 10 K N/Arms 36.3 Bemf V / m/s 30 coils@25°C S N²/W 2 τ mm coils@25°C Rf Ω 18.5 Lf mH 6 6 0.0 0.0 Rth °C/W 1 1 7 0.0<	N S 3-p magnet @25°C Fp N 100 1	N S N 3-phase syntage S N 100 20 20 10 20 20 20 2	N S N S S S S S S S	N S S	N S N S N S 3-phase synchronous Ironless, 300 N magnet @25°C Fp N 100 200 300 Ip Arms 2.8 5.0 5.5 10.0 8.3 15.0 coils @110°C Fc N 2229 4458 6687 coils @110°C Ic Arms 0.8 1.5 1.6 2.9 2.4 4.4 All coils Pc W 47 95 142 142 @300V vmax m/s 10 18 10 18 10 17 All coils Pc W 47 95 142 142 142 142 142 142 142 142 142 142 142 142 143 142 142 142 142 144 144 144 144 144 144 144 144 144 144 144 <td>N S N S N S N magnet @25°C Fp N 100 200 300 40 Louis @110°C Fc N 2.8 5.0 5.5 10.0 8.3 15.0 11.0 coils @110°C Fc N 2229 4458 6687 88 coils @110°C Ic Arms 0.8 1.5 1.6 2.9 2.4 4.4 3.2 All coils Pc W 47 95 142 19 @300V vmax m/s 10 18 10 18 10 17 10 K N/Arms 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 30</td>	N S N S N S N magnet @25°C Fp N 100 200 300 40 Louis @110°C Fc N 2.8 5.0 5.5 10.0 8.3 15.0 11.0 coils @110°C Fc N 2229 4458 6687 88 coils @110°C Ic Arms 0.8 1.5 1.6 2.9 2.4 4.4 3.2 All coils Pc W 47 95 142 19 @300V vmax m/s 10 18 10 18 10 17 10 K N/Arms 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 19.9 36.3 30

TECNOTION

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

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ons Magr	nettracks							
90 mm	120 mm	150 mm	390 mm					
3	4	5	13					
4.8 kg/m								
		3 4	90 mm					



