

# LINEAR IRON CORE MOTORS

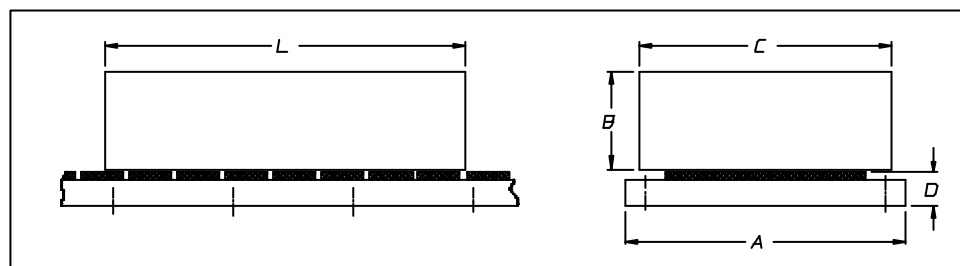


SERIES

# SKA 55HM 300

**FORCE**  
**300 N**

SINEWAVE FORM		SYMBOLS	UNITS	TYPE OF WINDING							
				12	14	15	16	17	18		
MOTOR SPEED	Vn drive 3phase 145 V (ac)		[ m/s ]	4.5	3	2	1.5	1.1			
	Vn drive 3phase 220 V (ac)		[ m/s ]		4.5	3	2	1.5	1		
	Vn drive 3phase 380 V (ac)		[ m/s ]			5	4	3	2		
<b>WINDING DATA</b>											
	Poles number	P						21			
	Continuous force	Fn0	[ N ]					300			
	Voltage constant ± 5%	Ke	[V/m/s]	33.9	50.9	77.8	102.5	136.8	205		
	Force constant ± 5%	Kf	[N/Amp]	33.9	50.9	77.8	102.5	136.8	205		
	Rated current	In0	[A]	8.8	5.9	3.8	2.9	2.2	1.5		
	Peak force	Fmax	[ N ]					600			
	Peak current	I fmax	[A]	17.6	11.8	7.6	5.8	4.4	3		
	Phase/phase res. ± 10% a 25°C		[Ohm]	5.6	8.26	13.1	16.42	21.3	32.83		
	Phase/phase inductance		[mH]	39.2	57.8	91.7	115	150	230		
	Electrical time constant		[msec]					7			
	Temperature range		[°C]					0 ÷ 40			
	Attractive force		[ N ]					3130			
MOTOR RATINGS	<b>MECHANICAL DATA</b>			<i>Power parts</i>				<i>Complete motor</i>			
		Coil assembly length	L	[mm]		335					
		Coil assembly width	C	[mm]		75				SEE THE	
		Coil assembly height	B	[mm]		48					
		Coil assembly mass		[Kg]		4.7				MECHANICAL	
		Magnet track width	A	[mm]		90					
		Magnet track height	D	[mm]		14				DRAWINGS	
		Magnet track weight		[ kg/m ]		8.3					
THERMAL PROTECTION	Type of thermal cut - off			N C : normally closed							
		Rated voltage	Vn	[ Vac ]					250		
		Rated current	In	[ A ]					2.5		
		Operative temperature	Tn	[ °C ]					140 °C ± 5%		
		Resetting temperature	Tr	[ °C ]					100 °C ± 15°C		
		Operative time		[ ms ]					1		
	Insulation class							F			



DATA SHEET N° 1B3102030100