

## Linear servo motors NSLM

Data sheet

		At supply of $V_{eff} = 230V$ ( $V_{SS} = 325 V$ )					At supply of $V_{eff} = 400V$ ( $V_{SS} = 565 V$ )				
		NSLM B33	NSLM B66	NSLM B100	NSLM B133	NSLM B166	NSLM B33	NSLM B66	NSLM B100	NSLM B133	NSLM B166
pole pitch (TP)	mm	16,25					16,25				
width (WD)	mm	33	66	100	133	166	33	66	100	133	166
moving mass ( $M_m$ )	kg	4,7	6,4	8,1	9,8	11,5	4,7	6,4	8,1	9,8	11,5
resistance at terminals at 20 °C ( $R_{UV}$ )	Ohm	7,3	10,8	14,5	18,1	21,7	21,7	32,6	43,4	54,3	65,2
inductance at terminals at 20 °C ( $L_{UV}$ )	mH	10	18	29	39	48	49	96	142	189	236
rated speed ( $v_0$ )	m/s	7,1	3,3	2	1,4	1	7,2	3,3	2	1,4	1
rated power ( $P_0$ )	W	1296	1141	1013	907	811	1308	1143	1020	913	817
continuous force ( $F_0$ )	N	182	345	500	653	805	183	344	500	653	805
current at continuous force ( $I_0$ )	A	4,78	4,54	4,38	4,29	4,23	2,77	2,61	2,53	2,48	2,45
force at S3 operation ( $F_{S3-40\%}$ )	N	273	518	750	980	1208	274	516	750	980	1208
current at S3 operation ( $I_{S3-40\%}$ )	A	7,17	6,81	6,57	6,44	6,35	4,16	3,92	3,8	3,72	3,67
peak force ( $F_{max}$ )	N	414	827	1241	1655	2069	414	827	1241	1655	2069
current at peak force ( $I_{max}$ )	A	11					6,1				
peak acceleration related to $M_m$ ( $a_{max}$ )	$m/s^2$	88	129	153	169	180	88	129	153	169	180
force constant ( $K_F$ )	N/A	39	78	117	156	195	67,5	135	203	270	338
motor constant ( $K_M$ )	$N/W^{1/2}$	11,8	19,4	25,1	29,9	34,1	11,8	19,3	25,1	29,9	34,1

All data is only product description and must not be understood as assured properties in a legal sense.