

M3000 EVEN-LOK™ APPLICATION GUIDE CONTINUED

M3000 Even-Lok™ Thrust Factors and Seal Speed

SHAFT SIZE	E	LIGHT THRUST IF FA/FR ≤ E		HEAVY THRUST IF FA/FR ≥ E		DYNAMIC CAPACITY C*		STANDARD SEAL RPM	MAXIMUM SLIP FIT RADIAL LOAD FR**
		X	Y	X	Y	LBS.	NEWTONS		
1 7/16 - 1 1/2	.28	1.0	2.4	.67	3.6	16500	73600	2800	2000
1 11/16 - 1 3/4	.26	1.0	2.6	.67	3.9	17300	77100	2650	2100
1 15/16 - 2	.24	1.0	2.8	.67	4.2	19000	84500	2400	2300
2 3/16	.23	1.0	2.9	.67	4.3	22400	99500	2150	2700
2 7/16 - 2 1/2	.24	1.0	2.8	.67	4.2	33300	148000	1800	4000
2 11/16 - 3	.22	1.0	3.1	.67	4.6	34600	158000	1600	4200
3 3/16 - 3 1/2	.23	1.0	2.9	.67	4.3	56900	253000	1300	6800
3 11/16 - 4	.24	1.0	2.8	.67	4.2	69900	311000	1200	8400

* Comparing Spherical to Tapered Roller Bearings—The dynamic capacity C (Spherical) and C90 (Tapered) are not the same base. To compare basic dynamic capacities, multiply C x .259 and compare to C90. To select and then compare, use the complete procedure for each bearing and then compare.

** If load exceeds maximum allowable slip fit radial load, snug to light press fit of shaft is required.

M3000 EVEN-LOK™ RADIAL LOAD RATINGS

NOMINAL SHAFT DIAMETER (IN)	L10 HRS LIFE	RADIAL LOAD RATINGS AT VARIOUS REVOLUTIONS PER MINUTE								
		50	100	200	500	1000	1200	1500	1800	2500
1 7/16 1 1/2	5000	7300	5930	4810	3660	2970	2780	2630	2490	2260
	10000	5930	4810	3910	2970	2410	2260	2140	2020	1830
	20000	4810	3910	3180	2410	1960	1830	1740	1640	1490
	50000	3660	2970	2410	1830	1490	1390	1320	1250	1130
	100000	2970	2410	1960	1490	1210	1130	1070	1010	919
1 11/16 1 3/4	5000	7660	6220	5050	3840	3120	2910	2760	2610	2370
	10000	6220	5050	4100	3120	2530	2370	2240	2120	1920
	20000	5050	4100	3330	2530	2060	1920	1820	1720	1560
	50000	3840	3120	2530	1920	1560	1460	1380	1310	1190
	100000	3120	2530	2060	1560	1270	1190	1120	1060	964
1 15/16 2	5000	7960	6470	5250	3990	3240	3030	2870	2720	-----
	10000	6470	5250	4270	3240	2630	2460	2330	2210	-----
	20000	5250	4270	3470	2630	2140	2000	1890	1790	-----
	50000	3990	3240	2630	2000	1620	1520	1440	1360	-----
	100000	3240	2630	2140	1620	1320	1230	1170	1110	-----
2 3/16	5000	9850	8000	6500	4940	4010	3750	3550	3360	-----
	10000	8000	6500	5280	4010	3260	3050	2880	2730	-----
	20000	6500	5280	4290	3260	2650	2470	2340	2220	-----
	50000	4940	4010	3260	2470	2010	1880	1780	1680	-----
	100000	4010	3260	2650	2010	1630	1530	1450	1370	-----
2 7/16 2 1/2	5000	14300	11600	9430	7160	5820	5440	5150	4880	-----
	10000	11600	9430	7660	5820	4730	4420	4180	3960	-----
	20000	9430	7660	6220	4730	3840	3590	3400	3220	-----
	50000	7160	5820	4730	3590	2920	2730	2580	2440	-----
	100000	5820	4730	3840	2920	2370	2210	2100	1990	-----
2 11/16 2 3/4 2 15/16 3	5000	15600	12600	10300	7800	6340	5930	5610	-----	-----
	10000	12600	10300	8340	6340	5150	4810	4560	-----	-----
	20000	10300	8340	6780	5150	4180	3910	3700	-----	-----
	50000	7800	6340	5150	3910	3180	2970	2810	-----	-----
	100000	6340	5150	4180	3180	2580	2410	2280	-----	-----
3 3/16 3 7/16 3 1/2	5000	25250	20510	16660	12660	10280	9730	-----	-----	-----
	10000	20510	16660	13530	10280	8350	7910	-----	-----	-----
	20000	16660	13530	10990	8350	6780	6420	-----	-----	-----
	50000	12660	10280	8350	6340	5150	4880	-----	-----	-----
	100000	10280	8350	6780	5150	4180	3960	-----	-----	-----
3 11/16 3 15/16 4	5000	31020	25200	20470	15550	12630	11960	-----	-----	-----
	10000	25200	20470	16620	12630	10260	9710	-----	-----	-----
	20000	20470	16620	13500	10260	8330	7890	-----	-----	-----
	50000	15550	12630	10260	7790	6330	5990	-----	-----	-----
	100000	12630	10260	8330	6330	5140	4870	-----	-----	-----



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