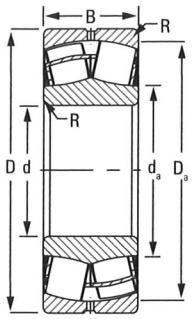
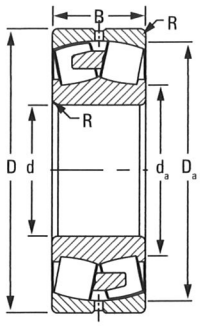
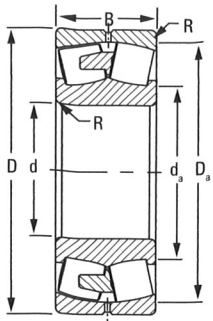


EJ



EM/YM



EMB/YMB

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Bearing Part Number	Bearing Dimensions			Load Ratings		Cage Type	Mounting Data			Equivalent Radial Load Factors[2]				Geometry Factor[3] C_g	Speed Reference			Weight
											Dynamic		Static		Thermal Reference Speed[4]		Limiting Speed[5]	
	Bore d	O.D. D	Width B	Dynamic C	Static C_0		Fillet[1] (Max.) R	Backing Diameter Shaft d_a	Backing Diameter Housing D_a	e	$\frac{F_a}{F_r} \le e$ X = 1 Y	$\frac{F_a}{F_r} > e$ X = 0.67 Y	In All Cases Y_0		Oil	Grease		
	mm in.	**mm** in.	**mm** in.	**kN** lbf.	**kN** lbf.		**mm** in.	**mm** in.	**mm** in.						RPM	RPM	RPM	**kg** lbs.
22217	**85** 3.3465	**150** 5.9055	**36** 1.4173	**297** 66900	**320** 71900	EJ	**2** 0.08	**101** 4.0	**139** 5.5	0.22	3.07	4.57	3.00	0.060	4200	3400	5840	**2.6** 5.6
22217	**85** 3.3465	**150** 5.9055	**36** 1.4173	**286** 64200	**302** 67900	EM	**2** 0.08	**101** 4.0	**139** 5.5	0.22	3.07	4.57	3.00	0.059	4200	3500	5960	**2.7** 6.0
21317	**85** 3.3465	**180** 7.0866	**41** 1.6142	**403** 90600	**407** 91500	EJ	**2.5** 0.1	**112** 4.4	**162** 6.4	0.22	3.04	4.53	2.97	0.067	3900	3200	4730	**4.9** 10.8
22317	**85** 3.3465	**180** 7.0866	**60** 2.3622	**543** 122000	**584** 131000	EJ	**2.5** 0.1	**110** 4.3	**162** 6.4	0.32	2.11	3.14	2.06	0.066	3500	3000	3860	**7.5** 16.5
22317	**85** 3.3465	**180** 7.0866	**60** 2.3622	**543** 122000	**584** 131000	EM	**2.5** 0.1	**110** 4.3	**162** 6.4	0.32	2.11	3.14	2.06	0.066	3500	3000	4320	**7.5** 16.5
22218	**90** 3.5433	**160** 6.2992	**40** 1.5748	**355** 79700	**388** 87200	EJ	**2** 0.08	**105** 4.2	**146** 5.8	0.23	2.90	4.31	2.83	0.064	4300	3500	5520	**3.5** 7.7
22218	**90** 3.5433	**160** 6.2992	**40** 1.5748	**355** 79700	**388** 87200	EM	**2** 0.08	**105** 4.2	**146** 5.8	0.23	2.90	4.31	2.83	0.064	4300	3500	5790	**3.5** 7.7
23218	**90** 3.5433	**160** 6.2992	**52.4** 2.0630	**436** 98000	**521** 117000	EJ	**2** 0.08	**107** 4.2	**147** 5.8	0.30	2.28	3.40	2.23	0.065	3000	2600	4160	**4.5** 9.9
23218	**90** 3.5433	**160** 6.2992	**52.4** 2.0630	**436** 98000	**521** 117000	EM	**2** 0.08	**107** 4.2	**147** 5.8	0.30	2.28	3.40	2.23	0.065	3000	2600	3850	**4.5** 9.9
21318	**90** 3.5433	**190** 7.4803	**43** 1.6929	**442** 99400	**449** 101000	EJ	**2.5** 0.1	**118** 4.7	**171** 6.7	0.22	3.05	4.55	2.99	0.069	3700	3100	4460	**5.8** 12.8
22318	**90** 3.5433	**190** 7.4803	**64** 2.5197	**606** 136000	**659** 148000	EJ	**2.5** 0.1	**116** 4.6	**171** 6.7	0.32	2.09	3.11	2.04	0.069	3400	2900	3640	**8.3** 19.4
22318	**90** 3.5433	**190** 7.4803	**64** 2.5197	**606** 136000	**659** 148000	EM	**2.5** 0.1	**116** 4.6	**171** 6.7	0.32	2.09	3.11	2.04	0.069	3400	2900	4190	**8.8** 19.4
23318	**90** 3.5433	**190** 7.4803	**73** 2.8740	**623** 140000	**672** 151000	EM	**2.5** 0.1	**110** 4.3	**167** 6.6	0.40	1.70	2.52	1.66	0.067	2500	2100	2970	**9.8** 21.6
21319	**95** 3.7402	**200** 7.8740	**45** 1.7717	**474** 107000	**483** 109000	EJ	**2.5** 0.1	**125** 4.9	**180** 7.1	0.22	3.02	4.50	2.96	0.072	3600	3000	4460	**6.5** 14.4
22219	**95** 3.7402	**170** 6.6929	**43** 1.6929	**385** 86600	**441** 99000	EJ	**2** 0.08	**114** 4.5	**155** 6.1	0.23	2.88	4.29	2.82	0.067	3900	3200	5120	**4.2** 9.2
22219	**95** 3.7402	**170** 6.6929	**43** 1.6929	**385** 86600	**441** 99000	EM	**2** 0.08	**114** 4.5	**155** 6.1	0.23	2.88	4.29	2.82	0.067	3900	3200	5550	**4.2** 9.2

[1]Maximum shaft or housing fillet radius that bearing corners will clear.

[2]These factors apply for both inch and metric calculations. See engineering section for instructions on use.

[3]Geometry constant for Lubrication Life Factor a31 is found in the Bearing Ratings section of the Engineering Manual (order no. 10424).

[4]See thermal reference speed in the Engineering Manual (order no. 10424) and on page 61.

[5]See limiting speed on page 61.

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