

Single row ball bearings for traction motors $d = 65$ to 150 mm

Dimensions				Basic Load Rating		Fatigue Load Limit	Limiting Speed for Lubrication with		Bearing Designation
d	D	B	r_s	Dynamic C_r	Static C_{or}	P_u	Grease	Oil	Standard
mm				kN		kN	min^{-1}		
65	100	18	1.1	30.5	25.1	1.14	6 300	7 500	6013MA
	120	23	1.5	57.2	40	1.89	5 300	6 300	6213MA
70	110	20	1.1	38	31	1.41	5 600	6 700	6014MA
	125	24	1.5	62	43.8	2.02	5 300	6 300	6214MA
75	115	20	1.1	39.8	33.2	1.55	5 300	6 300	6015MA
	130	25	1.5	66.2	49.3	2.21	5 000	6 000	6215MA
80	125	22	1.1	47.5	39.8	1.79	5 000	6 000	6016MA
	140	26	2	72.2	53.1	2.3	4 700	5 600	6216MA
	170	37	2.1	123	86.2	3.51	4 000	4 700	6316MA
85	150	28	2	83.3	63.7	2.67	4 200	5 000	6217MA
	180	41	3	133	96.1	3.79	3 800	4 500	6317MA
90	160	30	2	96.2	70.8	2.88	4 000	4 700	6218MA
	190	43	3	144	108	4.15	3 500	4 200	6318MA
95	170	32	2.1	108	81	3.20	3 800	4 500	6219MA
	200	45	3	152	117	4.39	3 300	4 000	6319MA
100	180	34	2.1	123	92.6	3.56	3 500	4 200	6220MA
	215	47	3	174	141	5.11	3 200	3 800	6320MA
110	200	38	2.1	144	117	4.27	3 200	3 800	6222MA
	240	50	3	203	180	6.18	2 600	3 200	6322MA
120	215	40	2.1	144	117	4.11	3 000	3 500	6224MA
	260	55	3	208	186	6.13	2 500	3 000	6324MA
130	230	40	3	156	132	4.47	2 600	3 100	6226MA
	280	58	4	229	216	6.86	2 350	2 800	6326MA
140	250	42	3	166	150	4.88	2 500	3 000	6228MA
	300	62	4	251	245	7.51	2 350	2 800	6328MA
150	270	45	3	190	181	5.68	2 200	2 700	6230MA
	320	65	4	276	285	8.45	2 000	2 400	6330MA

Bearing Designation	Abutment and Fillet Dimensions			Weight
	Electrically insulated	d_a min	D_a max	
	mm			kg
6013MA TM01	70	93	1	0.44
6213MA TM01	72	111	1.5	1
6014MA TM01	75	103	1	0.61
6214MA TM01	77	116	1.5	1.07
6015MA TM01	80	108	1	0.65
6215MA TM01	82	122	1.5	1.18
6016MA TM01	85	118	1	0.87
6216MA TM01	90	130	2	1.4
6316MA TM01	91	158	2	3.63
6217MA TM01	95	140	2	1.8
6317MA TM01	98	166	2.5	4.2
6218MA TM01	100	150	2	2.16
6318MA TM01	103	176	2.5	4.95
6219MA TM01	107	158	2	2.6
6319MA TM01	109	186	2.5	5.72
6220MA TM01	112	169	2	3.13
6320MA TM01	113	201	2.5	7.07
6222MA TM01	122	188	2	4.37
6322MA TM01	123	227	2.5	9.58
6224MA TM01	132	203	2	5.15
6324MA TM01	134	246	2.5	12.5
6226MA TM01	144	216	2.5	5.75
6326MA TM01	147	263	3	15.2
6228MA TM01	154	236	2.5	7.56
6328MA TM01	157	283	3	21.8
6230MA TM01	164	256	2.5	9.85
6330MA TM01	167	303	3	24

