



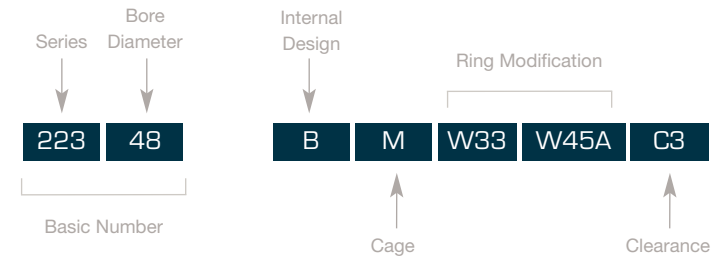
Spherical Bearing

Single Row

Chapter 10
Single Row
pages 00 to 00



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Series

213	Standard series spherical roller bearings
222,223	Standard series spherical roller bearings
230,231	Standard series spherical roller bearings
232,233,239	Standard series spherical roller bearings
240, 241	Standard series spherical roller bearings

Internal Design

B	One piece ribbed inner ring, asymmetrical roller and center guided retainere
C	(1) Single row angular contact ball bearing with 15° contact angle. (2) Spherical roller bearing with a flangeless inner ring, symmetrical rollers, loose guide ring and pressed window-type steel cage
CA	Spherical roller bearing of C design, but with retaining flanges on the inner ring and machined cage
CC	Spherical roller bearing of C design but with enhanced roller guidance
E	High capacity spherical roller bearing

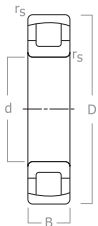
Cage

No Symbol	Pressed steel cage
J	Pressed steel cage
TV	Nylon cage
M	Machined brass cage, Roller riding
MB	Cage guided by inner ring
MA	Cage guide by outer ring

Ring Modification

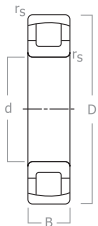
W33	Oil groove and holes
W20	Outer ring with Standard lubrication holes
W26	Six lubrication holes in the inner ring
W513	Six lubrication holes in the inner ring and annular groove and three lubrication holes in the outer ring.
W45A	Ring and rollers made of carburizing grade steel
W209	Carbunizing grade steel.
W47	Inner Ring with over size bore.
C08	C02 Inner ring & C04 Outer ring
C02/C04	Inner and outer ring closed running accuracy
K	1:12 tapered bore
K30	1:30 tapered bore

SINGLE ROW



Principal dimensions				Basic load ratings		Speed ratings(rpm)		Designations	Weight
mm				KN		Grease	Oil		kg
d	D	B	rmin	Cr	Cor				
65	120	23	1,5	95	116	2400	3000	20213M	1,07
	120	23	1,5	95	116	2400	3000	20213KM	1,19
	140	33	2,1	170	196	2200	2800	20313M	2,61
	140	33	2,1	170	196	2200	2800	20313K	2,53
70	125	24	1,5	106	134	2200	2800	20214M	1,15
	150	35	2,1	183	216	2000	2600	20314M	3,09
75	130	25	1,5	112	143	2200	2800	20215M	1,26
	130	25	1,5	112	143	2200	2800	20215KM	1,40
	160	37	2,1	216	255	1800	2200	20315M	3,72
	80	140	26	2,0	125	163	2000	2600	20216M
	140	26	2,0	125	163	2000	2600	20216KM	1,72
	170	39	2,1	245	285	1700	2000	20316M	4,56
85	150	28	2,0	156	200	1900	2400	20217M	2,18
	150	28	2,0	156	200	1900	2400	20217KM	2,14
	180	41	3,0	270	320	1600	1900	20317M	5,24
	90	160	30	2,0	173	220	1700	2000	20218M
	160	30	2,0	173	220	1700	2000	20218KM	2,63
	190	43	3,0	300	360	1600	1900	20318M	6,12
	190	43	3,0	300	360	1600	1900	20318KM	6,03
	95	170	32	2,1	208	265	1600	1900	20219M
	200	45	3,0	335	400	1500	1800	20319M	7,08
100	180	34	2,1	224	290	1600	1900	20220M	3,92
	180	34	2,1	224	290	1600	1900	20220KM	3,81
	215	47	3,0	365	440	1400	1700	20320M	8,62
	215	47	3,0	365	440	1400	1700	20320KM	8,46

SINGLE ROW



Principal dimensions				Basic load ratings		Speed ratings(rpm)		Designations	Weight
mm				KN		Grease	Oil		kg
d	D	B	rmin	Cr	Cor				
110	240	50	3,0	430	520	1200	1500	20322M	11,80
120	215	40	2,1	305	415	1300	1600	20224M	6,51
	260	55	3,0	490	630	1100	1400	20324M	15,10
130	230	40	3,0	335	450	1200	1500	20226M	7,30
	230	40	3,0	335	450	1200	1500	20226KM	7,19
	280	58	4,0	550	720	1100	1400	20326M	18,50
140	250	42	3,0	390	530	1100	1400	20228M	9,00
	250	42	3,0	390	530	1100	1400	20228KM	9,00
	300	62	4,0	640	850	1000	1300	20328M	22,40
150	270	45	3,0	430	610	1000	1300	20230M	11,60
	270	45	3,0	430	610	1000	1300	20230KM	11,50
	320	65	4,0	720	950	900	1200	20330M	27,00
160	290	48	3,0	500	720	950	1200	20232M	14,40
	290	48	3,0	500	720	950	1200	20232KM	14,30
170	310	52	4,0	570	830	900	1100	20234M	17,70
180	320	52	4,0	585	850	850	1000	20236M	18,90
190	340	55	4,0	640	950	800	950	20238M	22,30
200	360	58	4,0	735	1080	800	950	20240M	26,60
220	400	65	4,0	880	1320	700	850	20244M	37,30
240	440	72	4,0	1060	1600	630	750	20248M	50,30
260	480	80	5,0	1270	1930	600	700	20252M	67,10