

d (25) – (45) mm

d	Boundary dimensions (mm)				Basic load ratings (kN)				Limiting speeds ¹⁾ (min ⁻¹)		Bearing No.	(Refer.) Mass (kg)	
	D	B	r _{min.}	r _{1 min.}	With machined cage		With pressed cage		Grease lub.	Oil lub.			
	C _r	C _{0r}	C _r	C _{0r}									
25	52	15	1	0.6	15.3	9.50	16.2	10.3	15 000	19 000	7205 7205B 7205C	0.135 0.135 0.135	
	52	15	1	0.6	14.0	8.70	14.7	9.40	12 000	15 000			
	52	15	1	0.6	16.6	10.2	17.5	11.1	21 000	28 000			
	62	17	1.1	0.6	24.8	14.4	26.4	15.8	14 000	17 000	7305 7305B 7305C	0.243 0.243 0.243	
		17	1.1	0.6	22.9	13.3	24.4	14.6	10 000	14 000			
		17	1.1	0.6	26.4	15.3	28.1	16.8	19 000	25 000			
	80	21	1.5	1	39.7	23.2	42.6	25.7	8 200	11 000	7405 7405B	0.527 0.527	
		21	1.5	1	36.9	21.5	39.6	23.9	7 300	10 000			
	30	55	13	1	0.6	14.5	10.1	–	–	14 000	18 000	7006 7006C 7206	0.133 0.133 0.208
		55	13	1	0.6	15.8	11.0	–	–	20 000	26 000		
62		16	1	0.6	21.3	13.7	22.5	14.8	13 000	16 000			
62		16	1	0.6	19.4	12.5	20.5	13.6	9 600	13 000	7206B 7206C 7306	0.208 0.208 0.362	
		16	1	0.6	23.0	14.7	24.3	16.0	18 000	24 000			
		72	19	1.1	0.6	30.1	18.9	31.9	20.6	12 000			14 000
72		19	1.1	0.6	27.6	17.4	29.3	19.0	8 700	12 000	7306B 7306C 7406	0.362 0.362 0.686	
		19	1.1	0.6	32.3	20.3	34.2	22.1	16 000	21 000			
		90	23	1.5	1	47.6	28.4	51.0	31.6	7 300			9 700
90		23	1.5	1	44.2	26.4	47.4	29.3	6 500	8 900	7406B	0.686	
35	62	14	1	0.6	17.5	12.6	–	–	12 000	15 000	7007 7007C 7207	0.170 0.170 0.295	
	62	14	1	0.6	19.1	13.7	–	–	17 000	22 000			
	72	17	1.1	0.6	28.1	18.6	29.7	20.2	11 000	14 000			
	72	17	1.1	0.6	25.6	17.0	27.0	18.5	8 300	11 000	7207B 7207C	0.295 0.295	
		17	1.1	0.6	30.4	20.1	32.1	21.7	15 000	20 000			
	80	21	1.5	1	35.4	22.0	39.9	26.4	10 000	13 000	7307	0.475	
	80	21	1.5	1	32.5	20.2	36.6	24.3	7 700	10 000	7307B 7307C 7407	0.475 0.475 0.950	
		21	1.5	1	37.9	23.6	42.8	28.3	14 000	19 000			
		100	25	1.5	1	60.4	37.0	64.8	41.1	6 500			8 600
100	25	1.5	1	56.2	34.3	60.2	38.1	5 700	7 900	7407B	0.950		
40	68	15	1	0.6	18.7	14.6	–	–	11 000	14 000	7008 7008C 7208	0.210 0.210 0.382	
	68	15	1	0.6	20.5	15.9	–	–	15 000	20 000			
	80	18	1.1	0.6	33.6	23.3	35.3	25.1	10 000	12 000			
	80	18	1.1	0.6	30.6	21.3	32.1	23.0	7 500	10 000	7208B 7208C	0.382 0.382	
		18	1.1	0.6	36.4	25.2	38.2	27.1	14 000	18 000			
	90	23	1.5	1	43.2	27.4	48.8	32.9	9 200	12 000	7308	0.657	
	90	23	1.5	1	39.7	25.2	44.8	30.3	6 900	9 200	7308B 7308C 7408	0.657 0.657 1.23	
		23	1.5	1	46.3	29.4	52.3	35.3	13 000	17 000			
		110	27	2	1	69.9	43.5	75.0	48.4	5 900			7 900
110	27	2	1	64.9	40.4	69.6	44.9	5 200	7 200	7408B	1.23		
45	75	16	1	0.6	22.2	17.7	–	–	10 000	12 000	7009 7009C 7209	0.260 0.260 0.430	
	75	16	1	0.6	24.4	19.3	–	–	14 000	18 000			
	85	19	1.1	0.6	37.7	26.6	39.6	28.6	9 400	12 000			
	85	19	1.1	0.6	34.3	24.3	36.1	26.1	7 000	9 400	7209B 7209C	0.430 0.430	
		19	1.1	0.6	40.8	28.7	42.9	30.9	13 000	17 000			
	100	25	1.5	1	55.1	37.1	58.4	40.4	8 200	10 000	7309	0.875	

Notes 1) Rotation speed limits shown above are applicable to machined cage bearings.

Rotation speed limits of pressed cage bearings should be kept to under 80 % of this value.

For bearings with 15° contact angle, this figure is applied to the high precision bearings ranked higher than class 5, used with machined cage or molded cage.

2) B, C or no indication after the bearing number indicates nominal contact angle of 40°, 15° and 30° respectively.

Remark) Standard cage types used for the above bearings are described earlier in this section.