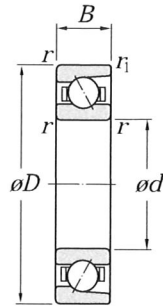
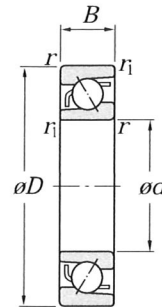


Single-row angular contact ball bearings

d 10 – (25) mm



With machined cage



With pressed cage

d	Boundary dimensions (mm)				Basic load ratings (kN)				Limiting speeds ¹⁾ (min ⁻¹)		Bearing ²⁾ No.	(Refer.) Mass (kg)
	D	B	r min.	r_1 min.	With machined cage		With pressed cage		Grease lub.	Oil lub.		
10	26	8	0.3	0.15	5.00	2.35	–	–	34 000	42 000	7000 7200B	0.021
	30	9	0.6	0.3	4.30	2.00	4.95	2.50	22 000	29 000		0.031
12	28	8	0.3	0.15	5.40	2.75	–	–	29 000	37 000	7001 7201	0.024
	32	10	0.6	0.3	7.45	3.65	8.00	4.05	27 000	34 000		0.038
	32	10	0.6	0.3	6.95	3.40	7.40	3.75	20 000	27 000	7201B	0.038
	32	10	0.6	0.3	7.90	3.85	8.50	4.30	38 000	50 000	7201C	0.038
15	32	9	0.3	0.15	6.10	3.45	–	–	26 000	32 000	7002 7202	0.035
	35	11	0.6	0.3	8.10	4.25	8.10	4.25	24 000	29 000		0.048
	35	11	0.6	0.3	7.45	3.95	7.45	3.95	18 000	24 000	7202B	0.048
	35	11	0.6	0.3	8.65	4.55	8.65	4.55	33 000	43 000	7202C	0.048
17	42	13	1	0.6	12.5	6.45	13.4	7.20	20 000	25 000	7302	0.088
	35	10	0.3	0.15	6.75	4.15	–	–	23 000	28 000	7003 7203	0.045
	40	12	0.6	0.3	10.2	5.50	10.2	5.50	21 000	26 000		0.070
	40	12	0.6	0.3	9.35	5.05	9.35	5.05	16 000	21 000	7203B	0.070
20	40	12	0.6	0.3	10.9	5.90	10.9	5.90	29 000	38 000	7203C	0.070
	47	14	1	0.6	14.9	7.90	16.0	8.75	18 000	23 000	7303	0.120
	47	14	1	0.6	13.8	7.30	14.8	8.10	14 000	18 000	7303B	0.120
	42	12	0.6	0.3	10.3	6.10	–	–	19 000	24 000	7004 7204	0.079
47	14	1	0.6	14.5	8.40	15.4	9.15	17 000	22 000	0.112		
25	47	14	1	0.6	13.3	7.70	14.1	8.40	13 000	17 000	7204B	0.112
	47	14	1	0.6	15.5	9.00	16.5	9.80	24 000	32 000	7204C	0.112
	52	15	1.1	0.6	17.4	9.40	18.7	10.4	17 000	21 000	7304	0.150
	52	15	1.1	0.6	16.2	8.70	17.3	9.65	13 000	17 000	7304B	0.150
25	52	15	1.1	0.6	18.5	9.95	19.9	11.1	23 000	31 000	7304C	0.150
	72	19	1.1	0.6	35.6	19.1	–	–	9 600	13 000	7404	0.395
	72	19	1.1	0.6	33.5	17.9	–	–	8 500	12 000	7404B	0.395
	47	12	0.6	0.3	11.3	7.40	–	–	17 000	21 000	7005 7005C	0.091
47	12	0.6	0.3	12.3	8.00	–	–	23 000	30 000	0.091		

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.