

Open type

Shielded type (ZZ)

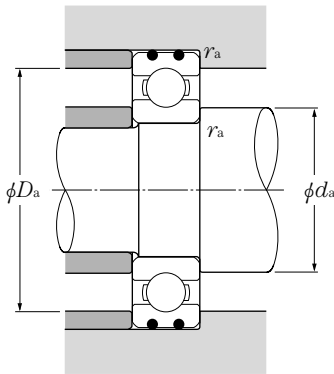
Non-contact sealed type (LLB)

Contact sealed type (LLU)

d 10 ~ 45mm

d	Boundary dimensions			Basic load ratings				Allowable load		Factor f_0	Limiting speeds			Bearing numbers				
	mm			dynamic		static		kN	kgf		min ⁻¹		LU, LLU		open type	shielded ¹⁾ type	non- ¹⁾ sealed type	contact sealed type
	D	B	$r_{s \min}^{(2)}$	C_r	C_{or}	C_r	C_{or}	C_p	C_p		grease open type ZZ, LLB	oil open type Z, LB	LU, LLU	open type	shielded ¹⁾ type	non- ¹⁾ sealed type	contact sealed type	
10	26	8	0.3	4.55	1.96	465	200	1.53	156	12.4	29 000	34 000	21 000	AC-6000	ZZ	LLB	LLU	
	30	9	0.6	5.10	2.39	520	244	2.39	244	13.2	25 000	30 000	18 000	AC-6200	ZZ	LLB	LLU	
	35	11	0.6	8.20	3.50	835	355	2.98	305	11.4	23 000	27 000	16 000	AC-6300	ZZ	LLB	LLU	
12	28	8	0.3	5.10	2.39	520	244	1.73	177	13.2	26 000	30 000	18 000	AC-6001	ZZ	LLB	LLU	
	32	10	0.6	6.10	2.75	620	280	2.75	280	12.7	22 000	26 000	16 000	AC-6201	ZZ	LLB	LLU	
	37	12	1	9.70	4.20	990	425	3.00	310	11.1	20 000	24 000	15 000	AC-6301	ZZ	LLB	LLU	
15	32	9	0.3	5.60	2.83	570	289	2.43	247	13.9	22 000	26 000	15 000	AC-6002	ZZ	LLB	LLU	
	35	11	0.6	7.75	3.60	790	365	2.71	277	12.7	19 000	23 000	15 000	AC-6202	ZZ	LLB	LLU	
	42	13	1	11.4	5.45	1 170	555	3.90	400	12.3	17 000	21 000	12 000	AC-6302	ZZ	LLB	LLU	
17	35	10	0.3	6.80	3.35	695	345	2.44	249	13.6	20 000	24 000	14 000	AC-6003	ZZ	LLB	LLU	
	40	12	0.6	9.60	4.60	980	465	3.50	355	12.8	18 000	21 000	12 000	AC-6203	ZZ	LLB	LLU	
	47	14	1	13.5	6.55	1 380	665	5.10	520	12.2	16 000	19 000	11 000	AC-6303	ZZ	LLB	LLU	
20	42	12	0.6	9.40	5.05	955	515	3.80	385	13.9	18 000	21 000	11 000	AC-6004	ZZ	LLB	LLU	
	47	14	1	12.8	6.65	1 310	680	4.20	430	13.2	16 000	18 000	10 000	AC-6204	ZZ	LLB	LLU	
	52	15	1.1	15.9	7.90	1 620	805	5.40	550	12.4	14 000	17 000	10 000	AC-6304	ZZ	LLB	LLU	
25	47	12	0.6	10.1	5.85	1 030	595	4.50	460	14.5	15 000	18 000	9 400	AC-6005	ZZ	LLB	LLU	
	52	15	1	14.0	7.85	1 430	800	5.80	590	13.9	13 000	15 000	8 900	AC-6205	ZZ	LLB	LLU	
	62	17	1.1	21.2	10.9	2 160	1 110	7.30	745	12.6	12 000	14 000	8 100	AC-6305	ZZ	LLB	LLU	
30	55	13	1	13.2	8.30	1 350	845	6.85	695	14.8	13 000	15 000	7 700	AC-6006	ZZ	LLB	LLU	
	62	16	1	19.5	11.3	1 980	1 150	7.55	770	13.8	11 000	13 000	7 300	AC-6206	ZZ	LLB	LLU	
	72	19	1.1	26.7	15.0	2 720	1 530	11.0	1 120	13.3	10 000	12 000	6 600	AC-6306	ZZ	LLB	LLU	
35	62	14	1	16.0	10.3	1 630	1 050	8.95	910	14.8	12 000	14 000	6 800	AC-6007	ZZ	LLB	LLU	
	72	17	1.1	25.7	15.3	2 620	1 560	9.65	985	13.8	9 800	11 000	6 300	AC-6207	ZZ	LLB	LLU	
	80	21	1.5	33.5	19.1	3 400	1 950	13.4	1 360	13.1	8 800	10 000	6 000	AC-6307	ZZ	LLB	LLU	
40	80	18	1.1	29.1	17.8	2 970	1 820	11.6	1 190	14.0	8 700	10 000	5 600	AC-6208	ZZ	LLB	LLU	
	90	23	1.5	40.5	24.0	4 150	2 450	16.6	1 690	13.2	7 800	9 200	5 300	AC-6308	ZZ	LLB	LLU	
45	85	19	1.1	32.5	20.4	3 350	2 080	14.7	1 500	14.1	7 800	9 200	5 200	AC-6209	ZZ	LLB	LLU	
	100	25	1.5	53.0	32.0	5 400	3 250	21.8	2 200	13.1	7 000	8 200	4 700	AC-6309	ZZ	LLB	LLU	

1) This bearing number is for double sealed and double shielded type bearings, but single sealed and single shielded type are also available. 2) Smallest allowable dimension for chamfer dimension r.



Dynamic equivalent radial load

$$P_r = X F_r + Y F_a$$

$\frac{f_0 \cdot F_a}{C_{or}}$	e	$\frac{F_a}{F_r} \leq e$		$\frac{F_a}{F_r} > e$	
		X	Y	X	Y
0.172	0.19				2.30
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.30	1	0	0.56	1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1.00

Static equivalent radial load

$$P_{or} = 0.6 F_r + 0.5 F_a$$

When $P_{or} < F_r$ use $P_{or} = F_r$

Abutment and fillet dimensions mm				Mass kg
d_a min	d_a max ³⁾	D_a max	r_{as} max	open type (approx.)
12	13.5	24	0.3	0.019
14	16	26	0.6	0.031
14	17	31	0.6	0.051
<hr/>				
14	16	26	0.3	0.021
16	17.5	28	0.6	0.036
17	18.5	32	1	0.058
<hr/>				
17	19	30	0.3	0.029
19	20.5	31	0.6	0.043
20	23	37	1	0.079
<hr/>				
19	21	33	0.3	0.037
21	23	36	0.6	0.062
22	25	42	1	0.11
<hr/>				
24	26	38	0.6	0.066
25	28	42	1	0.101
26.5	28.5	45.5	1	0.139
<hr/>				
29	30.5	43	0.6	0.075
30	32	47	1	0.122
31.5	35	55.5	1	0.223
<hr/>				
35	37	50	1	0.11
35	39	57	1	0.191
36.5	43	65.5	1	0.334
<hr/>				
40	42	57	1	0.148
41.5	45	65.5	1	0.277
43	47	72	1.5	0.44
<hr/>				
46.5	51	73.5	1	0.352
48	54	82	1.5	0.609
<hr/>				
51.5	55.5	78.5	1	0.391
53	61.5	92	1.5	0.80

3) This dimension applies to sealed and shielded bearings.