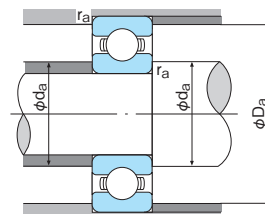
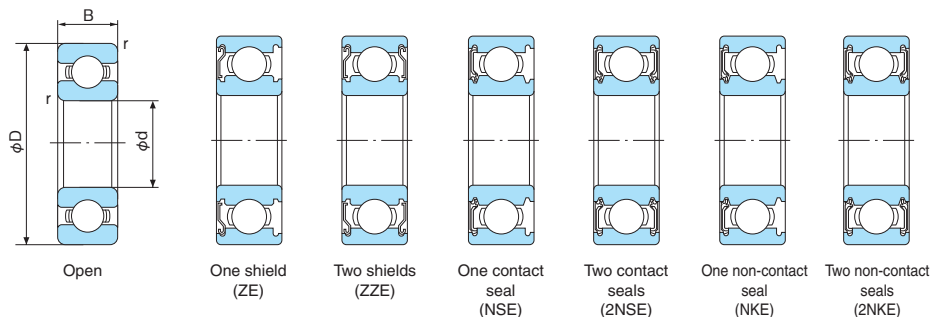


Deep-groove Ball Bearings

Bore Diameter: 55~80mm



Dynamic equivalent radial load

$$Pr = XFr + YFa$$

Static equivalent radial load

Larger value of following to be used:

$$Por = 0.6Fr + 0.5Fa$$

$$Por = Fr$$

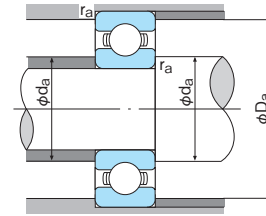
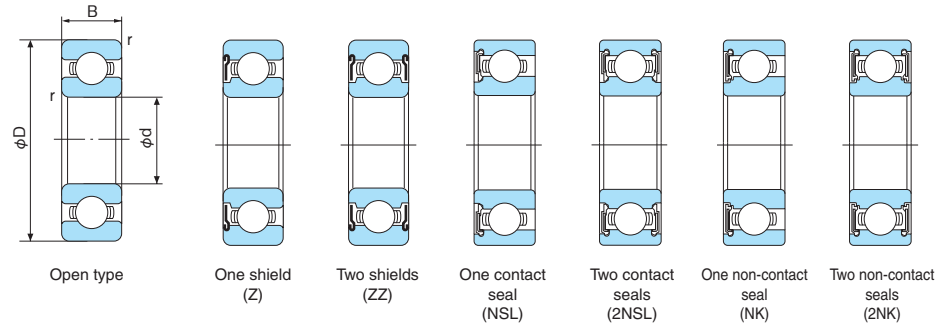
foFa Cor	e	Fa/Fr ≤ e		Fa/Fr > e	
		X	Y	X	Y
0.172	0.19				2.30
0.345	0.22	1	0	0.56	1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.30	1	0	0.56	1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42	1	0	0.56	1.04
6.89	0.44				1.00

1N=0.102kgf

Boundary dimensions (mm)				Bearing No.							Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Factor fo	Limiting speed (min ⁻¹)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.
d	D	B	r (min)	Open type	Shield type		Contact seal type		Non-contact seal type					Grease lubrication		Oil lubrication	da (min)	Da (max)	ra (max)		
					ZZE	ZE	2NSE	NSE	2NKE	NKE				2NKE	NSE, 2NSE	Open type, ZE					
55	72	9	0.3	6811	6811Z	6811ZZ	—	—	—	—	8800	8100	16.2	8700	—	10000	57	70	0.3	0.083	6811
	80	13	1	6911	6911Z	6911ZZ	—	—	—	—	16000	13200	16.2	8200	—	9600	60	75	1.0	0.177	6911
	90	11	0.6	16011	—	—	—	—	—	—	15200	13500	16.5	7700	—	9000	62	83	0.6	0.260	16011
	90	18	1.1	6011	6011ZE	6011ZZE	6011NSE	6011-2NSE	6011NKE	6011-2NKE	28300	21300	15.4	7700	4500	9000	61	84	1.0	0.384	6011
	100	21	1.5	6211	6211ZE	6211ZZE	6211NSE	6211-2NSE	6211NKE	6211-2NKE	43500	29300	14.4	6400	4300	7700	64	91	1.5	0.607	6211
	120	29	2	6311	6311ZE	6311ZZE	6311NSE	6311-2NSE	6311NKE	6311-2NKE	71500	44500	13.1	5800	4000	6800	65	110	2.0	1.37	6311
60	78	10	0.3	6812	6812Z	6812ZZ	—	—	—	—	11500	10600	16.3	8000	—	9500	62	76	0.3	0.106	6812
	85	13	1	6912	6912Z	6912ZZ	—	—	—	—	15200	13500	16.5	7600	—	9000	65	80	1.0	0.191	6912
	95	11	0.6	16012	—	—	—	—	—	—	16200	14300	16.5	7100	—	8500	67	88	0.6	0.280	16012
	95	18	1.1	6012	6012ZE	6012ZZE	6012NSE	6012-2NSE	6012NKE	6012-2NKE	29400	23200	15.5	7100	4100	8500	66	89	1.0	0.418	6012
	110	22	1.5	6212	6212ZE	6212ZZE	6212NSE	6212-2NSE	6212NKE	6212-2NKE	52500	36000	14.3	6000	3800	7100	69	101	1.5	0.783	6212
	130	31	2.1	6312	6312ZE	6312ZZE	6312NSE	6312-2NSE	6312NKE	6312-2NKE	82000	52000	13.2	5400	3600	6300	72	118	2.0	1.70	6312
65	85	10	0.6	6813	6813Z	6813ZZ	—	—	—	—	11900	11500	16.2	7500	—	8700	69	81	0.6	0.125	6813
	90	13	1	6913	6913Z	6913ZZ	—	—	—	—	17400	16000	16.5	7100	—	8500	70	85	1.0	0.200	6913
	100	11	0.6	16013	—	—	—	—	—	—	20500	18600	16.4	6700	—	8000	72	93	0.6	0.300	16013
	100	18	1.1	6013	6013ZE	6013ZZE	6013NSE	6013-2NSE	6013NKE	6013-2NKE	30500	25200	15.7	6700	4000	8000	71	94	1.0	0.438	6013
	120	23	1.5	6213	6213ZE	6213ZZE	6213NSE	6213-2NSE	6213NKE	6213-2NKE	57000	40000	14.4	5500	3600	6500	74	111	1.5	0.990	6213
	140	33	2.1	6313	6313ZE	6313ZZE	6313NSE	6313-2NSE	6313NKE	6313-2NKE	92500	59500	13.2	4900	3400	6000	77	128	2.0	2.08	6313
70	90	10	0.6	6814	6814Z	6814ZZ	—	—	—	—	12100	11900	16.1	7000	—	8100	74	86	0.6	0.135	6814
	100	16	1	6914	6914Z	6914ZZ	—	—	—	—	23700	21100	16.3	6500	—	7700	75	95	1.0	0.327	6914
	110	13	0.6	16014	—	—	—	—	—	—	26800	23600	16.2	6100	—	7100	77	103	0.6	0.433	16014
	110	20	1.1	6014	6014ZE	6014ZZE	6014NSE	6014-2NSE	6014NKE	6014-2NKE	38000	31000	15.6	6100	3600	7100	76	104	1.0	0.607	6014
	125	24	1.5	6214	6214ZE	6214ZZE	6214NSE	6214-2NSE	6214NKE	6214-2NKE	62000	44000	14.4	5100	3400	6300	79	116	1.5	1.07	6214
	150	35	2.1	6314	6314ZE	6314ZZE	6314NSE	6314-2NSE	6314NKE	6314-2NKE	104000	68000	13.2	4600	3200	5400	82	138	2.0	2.52	6314
75	95	10	0.6	6815	6815Z	6815ZZ	—	—	—	—	12500	12800	16.0	6500	—	7600	79	91	0.6	0.145	6815
	105	16	1	6915	6915Z	6915ZZ	—	—	—	—	20800	19700	16.5	6200	—	7200	80	100	1.0	0.345	6915
	115	13	0.6	16015	—	—	—	—	—	—	27600	25300	16.4	5700	—	6700	82	108	0.6	0.457	16015
	115	20	1.1	6015	6015ZE	6015ZZE	6015NSE	6015-2NSE	6015NKE	6015-2NKE	39500	33500	15.7	5700	3400	6700	81	109	1.0	0.645	6015
	130	25	1.5	6215	6215ZE	6215ZZE	6215NSE	6215-2NSE	6215NKE	6215-2NKE	66000	49500	14.7	4800	3200	5600	84	121	1.5	1.18	6215
	160	37	2.1	6315	6315ZE	6315ZZE	6315NSE	6315-2NSE	6315NKE	6315-2NKE	113000	77000	13.2	4300	2900	5000	87	148	2.0	3.02	6315
80	100	10	0.6	6816	6816Z	6816ZZ	—	—	—	—	12700	13300	15.9	6000	—	7100	84	96	0.6	0.155	6816
	110	16	1	6916	6916Z	6916ZZ	—	—	—	—	27600	25300	16.4	5700	—	6700	85	105	1.0	0.363	6916
	125	14	0.6	16016	—	—	—	—	—	—	32000	29600	16.4	5300	—	6300	87	118	0.6	0.597	16016
	125	22	1.1	6016	6016ZE	6016ZZE	—	—	—	—	47500	39500	15.6	5300	—	6300	86	119	1.0	0.855	6016
	140	26	2	6216	6216ZE	6216ZZE	6216NSL	6216-2NSL	6216NKE	6216-2NKE	72500	53000	14.6	4500	3000	5300	90	130	2.0	1.40	6216
	170	39	2.1	6316	6316ZE	6316ZZE	6316NSL	6316-2NSL	6316NKE	6316-2NKE	123000	86500	13.2	4000	2800	4800	92	158	2.0	3.59	6316

Deep-groove Ball Bearings

Bore Diameter: 85~110mm



Dynamic equivalent radial load
 $P_r = XFr + YFa$

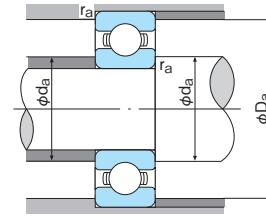
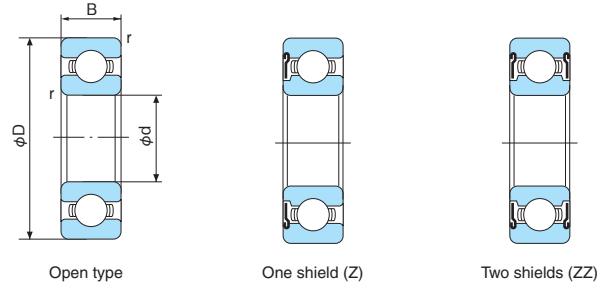
Static equivalent radial load
 Larger value of following to be used:
 $P_{or} = 0.6Fr + 0.5Fa$
 $P_{or} = Fr$

foFa Cor	e	$\frac{Fa}{Fr} \leq e$		$\frac{Fa}{Fr} > e$	
		X	Y	X	Y
0.172	0.19				2.30
0.345	0.22	1	0	0.56	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	0	0.56	1.04
6.89	0.44				1.00

Boundary dimensions (mm)				Bearing No.						Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Factor fo	Limiting speed (min ⁻¹)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.	
d	D	B	r (min)	Open type	Shield type		Contact seal type		Non-contact seal type				Grease lubrication		Oil lubrication	da (min)	Da (max)	ra (max)			
															Open type, Z, ZZ, NK, 2NK						NSL, 2NSL
85	110	13	1	6817	6817Z	6817ZZ	—	—	—	—	18700	19000	16.2	5700	—	6700	90	105	1.0	0.265	6817
	120	18	1.1	6917	6917Z	6917ZZ	—	—	—	—	32000	29600	16.4	5400	—	6300	91	113	1.0	0.517	6917
	130	14	0.6	16017	—	—	—	—	—	—	31500	29800	16.4	5000	—	6000	92	123	0.6	0.626	16017
	130	22	1.1	6017	6017Z	6017ZZ	—	—	—	—	49500	43000	15.7	5000	—	6000	91	124	1.1	0.895	6017
	150	28	2	6217	6217Z	6217ZZ	6217NSL	6217-2NSL	6217NK	6217-2NK	84000	62000	14.5	4300	2800	5000	95	140	2.0	1.79	6217
	180	41	3	6317	6317Z	6317ZZ	6317NSL	6317-2NSL	6317NK	6317-2NK	133000	96500	13.3	3800	2600	4500	99	166	2.5	4.23	6317
90	115	13	1	6818	6818Z	6818ZZ	—	—	—	—	19000	19700	16.1	5400	—	6300	95	110	1.0	0.280	6818
	125	18	1.1	6918	6918Z	6918ZZ	—	—	—	—	33000	31500	16.4	5100	—	6000	96	119	1.0	0.540	6918
	140	16	1	16018	—	—	—	—	—	—	41500	39500	16.3	4800	—	5600	99	131	1.0	0.848	16018
	140	24	1.5	6018	6018Z	6018ZZ	—	—	—	—	58000	49500	15.6	4800	—	5600	97	133	1.5	1.17	6018
	160	30	2	6218	6218Z	6218ZZ	6218NSL	6218-2NSL	6218NK	6218-2NK	96000	71500	14.5	4000	2600	4800	100	150	2.0	2.15	6218
	190	43	3	6318	6318Z	6318ZZ	6318NSL	6318-2NSL	6318NK	6318-2NK	143000	107000	13.3	3600	2400	4300	104	176	2.5	4.91	6318
95	120	13	1	6819	6819Z	6819ZZ	—	—	—	—	19300	20500	16.0	5000	—	6000	100	115	1.0	0.298	6819
	130	18	1.1	6919	6919Z	6919ZZ	—	—	—	—	33500	33500	16.5	4800	—	5700	101	124	1.0	0.567	6919
	145	16	1	16019	—	—	—	—	—	—	41000	39500	16.4	4600	—	5300	104	136	1.0	0.885	16019
	145	24	1.5	6019	6019Z	6019ZZ	—	—	—	—	60500	54000	15.8	4500	—	5300	102	138	1.5	1.22	6019
	170	32	2.1	6219	6219Z	6219ZZ	6219NSL	6219-2NSL	6219NK	6219-2NK	109000	81500	14.4	3800	2600	4500	107	158	2.0	2.62	6219
	200	45	3	6319	6319Z	6319ZZ	6319NSL	6319-2NSL	6319NK	6319-2NK	153000	118000	13.3	3300	2400	3900	109	186	2.5	5.67	6319
100	125	13	1	6820	6820Z	6820ZZ	—	—	—	—	19600	21200	16.0	4800	—	5600	105	120	1.0	0.311	6820
	140	20	1.1	6920	6920Z	6920ZZ	—	—	—	—	42500	36500	16.5	4500	—	5300	106	134	1.0	0.771	6920
	150	16	1	16020	—	—	—	—	—	—	37500	39500	16.4	4300	—	5300	109	141	1.0	0.910	16020
	150	24	1.5	6020	6020Z	6020ZZ	—	—	—	—	60000	54000	15.9	4300	—	5300	107	143	1.5	1.26	6020
	180	34	2.1	6220	6220Z	6220ZZ	6220NSL	6220-2NSL	6220NK	6220-2NK	122000	93000	14.4	3600	2400	4300	112	168	2.0	3.14	6220
	215	47	3	6320	6320Z	6320ZZ	6320NSL	6320-2NSL	6320NK	6320-2NK	173000	141000	13.2	3200	2200	3700	114	201	2.5	7.00	6320
105	130	13	1	6821	—	—	—	—	—	—	19900	21900	15.9	4800	—	5600	110	125	1.0	0.325	6821
	145	20	1.1	6921	—	—	—	—	—	—	42500	42000	16.4	4300	—	5300	111	139	1.0	0.793	6921
	160	18	1	16021	—	—	—	—	—	—	37500	50500	16.4	4000	—	4800	114	151	1.0	1.20	16021
	160	26	2	6021	6021Z	6021ZZ	—	—	—	—	72500	65500	15.8	4000	—	4800	113	152	2.0	1.60	6021
	190	36	2.1	6221	6221Z	6221ZZ	—	—	—	—	133000	104000	14.3	3400	—	4000	117	178	2.0	3.76	6221
	225	49	3	6321	6321Z	6321ZZ	—	—	—	—	184000	153000	13.2	3000	—	3600	119	211	2.5	8.05	6321
110	140	16	1	6822	—	—	—	—	—	—	27300	29400	16.9	4300	—	5300	115	135	1.0	0.510	6822
	150	20	1.1	6922	—	—	—	—	—	—	38000	38500	16.4	4300	—	5000	116	144	1.0	0.830	6922
	170	19	1	16022	—	—	—	—	—	—	44000	45000	16.5	3800	—	4500	119	161	1.0	1.46	16022
	170	28	2	6022	6022Z	6022ZZ	—	—	—	—	84500	73000	15.5	3800	—	4500	118	162	2.0	1.97	6022
	200	38	2.1	6222	6222Z	6222ZZ	—	—	—	—	144000	117000	14.3	3200	—	3800	122	188	2.0	4.36	6222
	240	50	3	6322	6322Z	6322ZZ	—	—	—	—	205000	179000	13.1	2900	—	3400	124	226	2.5	9.54	6322

Deep-groove Ball Bearings

Bore Diameter: 120~170mm



Dynamic equivalent radial load
 $P_r = XFr + YFa$

Static equivalent radial load
 Larger value of following to be used:
 $P_{or} = 0.6Fr + 0.5Fa$
 $P_{or} = Fr$

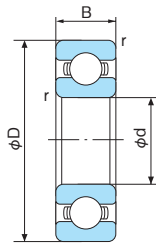
foFa Cor	e	$\frac{Fa}{Fr} \leq e$		$\frac{Fa}{Fr} > e$	
		X	Y	X	Y
0.172	0.19				2.30
0.345	0.22	1	0	0.56	1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.30	1	0	0.56	1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42	1	0	0.56	1.04
6.89	0.44				1.00

1N=0.102kgf

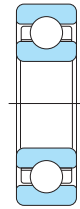
Boundary dimensions (mm)				Bearing No.						Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Factor fo	Limiting speed (min ⁻¹)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.	
d	D	B	r (min)	Open type	Shield type		Contact seal type		Non-contact seal type				Grease lubrication		Oil lubrication	da (min)	Da (max)	ra (max)			
					Open type, Z, ZZ	NSL, 2NSL	Open type, Z														
120	150	16	1	6824	—	—	—	—	—	—	28300	31500	16.0	4000	—	4800	125	145	1.0	0.549	6824
	165	22	1.1	6924	—	—	—	—	—	—	53000	54000	16.5	3800	—	4600	126	159	1.0	1.13	6924
	180	19	1	16024	—	—	—	—	—	—	48000	50000	16.4	3600	—	4300	129	171	1.0	1.80	16024
	180	28	2	6024	6024Z	6024ZZ	—	—	—	—	88000	79500	15.7	3600	—	4300	128	172	2.0	2.67	6024
	215	40	2.1	6224	6224Z	6224ZZ	—	—	—	—	145000	118000	14.4	2900	—	3400	132	203	2.0	5.15	6224
	260	55	3	6324	6324Z	6324ZZ	—	—	—	—	207000	185000	13.6	2600	—	3100	134	246	2.5	14.6	6324
130	165	18	1.1	6826	—	—	—	—	—	—	37000	41000	16.1	3700	—	4400	136	158	1.0	0.790	6826
	180	24	1.5	6926	—	—	—	—	—	—	65000	67000	16.4	3500	—	4200	137	173	1.5	1.78	6926
	200	22	1.1	16026	—	—	—	—	—	—	55000	59500	16.3	3200	—	3800	144	186	1.0	2.69	16026
	200	33	2	6026	6026Z	6026ZZ	—	—	—	—	106000	101000	15.7	3200	—	3800	138	192	2.0	3.92	6026
	230	40	3	6226	6226Z	6226ZZ	—	—	—	—	167000	146000	14.5	2700	—	3200	144	216	2.5	5.82	6226
	280	58	4	6326	6326Z	6326ZZ	—	—	—	—	229000	214000	13.6	2400	—	2800	148	262	3.0	18.2	6326
140	175	18	1.1	6828	—	—	—	—	—	—	38000	44500	16.0	3400	—	4000	146	169	1.0	0.840	6828
	190	24	1.5	6928	—	—	—	—	—	—	66500	71000	16.5	3200	—	3800	147	183	1.5	1.90	6928
	210	22	1.1	16028	—	—	—	—	—	—	56000	62000	16.2	3000	—	3500	154	196	1.0	2.86	16028
	210	33	2	6028	6028Z	6028ZZ	—	—	—	—	110000	109000	15.9	3000	—	3600	148	202	2.0	4.15	6028
	250	42	3	6228	6228Z	6228ZZ	—	—	—	—	166000	150000	14.8	2500	—	2900	154	236	2.5	7.47	6228
	300	62	4	6328	6328Z	6328ZZ	—	—	—	—	253000	246000	13.6	2200	—	2600	158	282	3.0	21.8	6328
150	190	20	1.1	6830	—	—	—	—	—	—	47500	54500	16.1	3200	—	3800	156	184	1.0	1.20	6830
	210	28	2	6930	—	—	—	—	—	—	85500	87000	16.4	3000	—	3500	158	202	2.0	2.64	6930
	225	24	1.1	16030	—	—	—	—	—	—	76500	82500	16.5	2800	—	3200	164	211	1.0	3.58	16030
	225	35	2.1	6030	6030Z	6030ZZ	—	—	—	—	126000	126000	15.9	2800	—	3200	159	216	2.0	4.48	6030
	270	45	3	6230	6230Z	6230ZZ	—	—	—	—	176000	168000	15.2	2300	—	2700	164	256	2.5	9.41	6230
	320	65	4	6330	—	—	—	—	—	—	274000	284000	13.9	2100	—	2400	168	302	3.0	26.2	6330
160	200	20	1.1	6832	—	—	—	—	—	—	48500	56500	16.0	2900	—	3400	166	194	1.0	1.30	6832
	220	28	2	6932	—	—	—	—	—	—	87500	95500	16.5	2800	—	3300	168	212	2.0	3.01	6932
	240	38	2.1	6032	—	—	—	—	—	—	137000	135000	15.9	2600	—	3000	169	231	2.0	5.89	6032
	290	48	3	6232	6232Z	6232ZZ	—	—	—	—	185000	186000	15.4	2100	—	2500	174	276	2.5	14.3	6232
	340	68	4	6332	—	—	—	—	—	—	278000	287000	13.9	1900	—	2300	178	322	3.0	28.6	6332
170	215	22	1.1	6834	—	—	—	—	—	—	60000	70500	16.1	2700	—	3200	177	208	1.0	1.85	6834
	230	28	2	6934	—	—	—	—	—	—	86000	95000	16.4	2600	—	3100	178	222	2.0	3.17	6934
	260	42	2.1	6034	—	—	—	—	—	—	161000	160000	15.7	2400	—	2800	179	251	2.0	7.92	6034
	310	52	4	6234	—	—	—	—	—	—	212000	224000	15.3	2000	—	2400	188	292	3.0	17.5	6234
	360	72	4	6334	—	—	—	—	—	—	325000	355000	13.6	1800	—	2100	188	342	3.0	34.0	6334

Deep-groove Ball Bearings

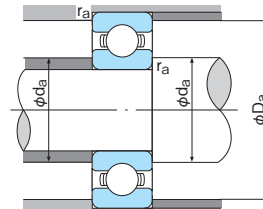
Bore Diameter: 180~280mm



Open type



Open type
(Machined cage)



■ **Dynamic equivalent radial load**
 $P_r = XFr + YFa$

■ **Static equivalent radial load**
 Larger value of following to be used:
 $P_{or} = 0.6Fr + 0.5Fa$
 $P_{or} = Fr$

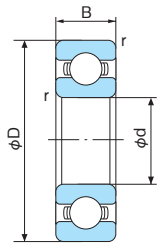
$\frac{f_0 Fa}{Cor}$	e	$\frac{Fa}{Fr} \leq e$		$\frac{Fa}{Fr} > e$	
		X	Y	X	Y
0.172	0.19				2.30
0.345	0.22	1	0	0.56	1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.30	1	0	0.56	1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42	1	0	0.56	1.04
6.89	0.44				1.00

1N=0.102kgf

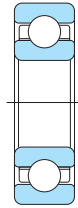
Boundary dimensions (mm)				Bearing No.						Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Factor fo	Limiting speed (min ⁻¹)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.	
d	D	B	r (min)	Open type	Shield type	Contact seal type	Non-contact seal type	Grease lubrication Open type	Oil lubrication NSL, 2NSL				Oil lubrication Open type	da (min)	Da (max)	ra (max)					
180	225	22	1.1	6836	—	—	—	—	—	—	60500	73000	16.0	2600	—	3000	187	218	1.0	2.02	6836
	250	33	2	6936	—	—	—	—	—	—	106000	117000	16.5	2400	—	2900	188	242	2.0	4.68	6936
	280	46	2.1	6036	—	—	—	—	—	—	174000	180000	15.8	2300	—	2700	189	271	2.0	10.3	6036
	320	52	4	6236	—	—	—	—	—	—	227000	242000	15.1	1900	—	2200	198	302	3.0	18.3	6236
	380	75	4	6336	—	—	—	—	—	—	325000	360000	13.9	1700	—	2000	198	362	3.0	41.9	6336
190	240	24	1.5	6838	—	—	—	—	—	—	73000	88000	16.1	2400	—	2900	198	232	1.5	2.60	6838
	260	33	2	6938	—	—	—	—	—	—	108000	123000	16.4	2300	—	2700	198	252	2.0	4.90	6938
	290	46	2.1	6038	—	—	—	—	—	—	188000	200000	15.7	2100	—	2500	199	281	2.0	10.8	6038
	340	55	4	6238	—	—	—	—	—	—	255000	282000	15.1	1800	—	2100	208	322	3.0	23.0	6238
	400	78	5	6338	—	—	—	—	—	—	355000	415000	14.1	1600	—	1900	212	378	4.0	48.2	6338
200	250	24	1.5	6840	—	—	—	—	—	—	74000	91000	15.9	2300	—	2700	208	242	1.5	2.70	6840
	280	38	2.1	6940	—	—	—	—	—	—	130000	146000	16.5	2200	—	2600	209	271	2.0	6.88	6940
	310	51	2.1	6040	—	—	—	—	—	—	202000	222000	15.8	2000	—	2400	209	301	2.0	13.9	6040
	360	58	4	6240	—	—	—	—	—	—	268000	310000	15.2	1700	—	2000	218	342	3.0	28.2	6240
	420	80	5	6340	—	—	—	—	—	—	380000	445000	13.9	1500	—	1800	222	398	4.0	54.6	6340
220	270	24	1.5	6844	—	—	—	—	—	—	76500	98000	15.9	2100	—	2400	228	262	1.5	2.98	6844
	300	38	2.1	6944	—	—	—	—	—	—	132000	154000	16.4	2000	—	2300	229	291	2.0	7.45	6944
	340	56	3	6044	—	—	—	—	—	—	214000	248000	15.9	1800	—	2200	230	330	2.5	18.4	6044
	400	65	4	6244	—	—	—	—	—	—	310000	375000	15.1	1500	—	1800	238	382	3.0	37.0	6244
	240	300	28	2	6848	—	—	—	—	—	—	98500	127000	15.9	1900	—	2200	250	291	2.0	4.60
320		38	2.1	6948	—	—	—	—	—	—	154000	186000	16.3	1800	—	2100	249	311	2.0	8.02	6948
360		56	3	6048	—	—	—	—	—	—	222000	268000	16.1	1700	—	2000	250	350	2.5	19.6	6048
440		72	4	6248	—	—	—	—	—	—	340000	430000	15.2	1200	—	1500	258	322	3.0	49.9	6248
260		320	28	2	6852	—	—	—	—	—	—	101000	136000	15.8	1700	—	2000	269	311	2.0	4.95
	360	46	2.1	6952	—	—	—	—	—	—	204000	254000	16.4	1600	—	1900	269	351	2.0	13.4	6952
	400	65	4	6052	—	—	—	—	—	—	252000	320000	16.1	1500	—	1800	272	388	3.0	29.3	6052
	480	80	5	6252	—	—	—	—	—	—	400000	540000	15.1	1100	—	1400	282	458	4.0	67.5	6252
	280	350	33	2	6856	—	—	—	—	—	—	133000	177000	16.1	1600	—	1900	290	341	2.0	7.35
380		46	2.1	6956	—	—	—	—	—	—	209000	270000	16.3	1500	—	1800	289	371	2.0	14.3	6956
420		65	4	6056	—	—	—	—	—	—	266000	350000	16.1	1400	—	1600	293	405	3.0	31.0	6056
500		80	5	6256	—	—	—	—	—	—	400000	550000	15.3	1000	—	1300	302	478	4.0	71.0	6256

Deep-groove Ball Bearings

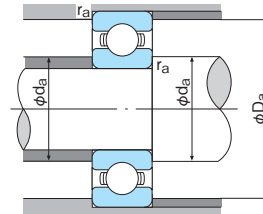
Bore Diameter: 300~320mm



Open type



Open type
(Machined cage)



■ **Dynamic equivalent radial load**
 $P_r = XFr + YFa$

■ **Static equivalent radial load**
 Larger value of following to be used:
 $P_{or} = 0.6Fr + 0.5Fa$
 $P_{or} = Fr$

$\frac{Y_0 Fa}{Cor}$	e	$\frac{Fa}{Fr} \leq e$		$\frac{Fa}{Fr} > e$	
		X	Y	X	Y
0.172	0.19				2.30
0.345	0.22	1	0	0.56	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	0	0.56	1.04
6.89	0.44				1.00

1N=0.102kgf

Boundary dimensions (mm)				Bearing No.							Basic dynamic load rating Cr (N)	Basic static load rating Cor (N)	Factor fo	Limiting speed (min ⁻¹)			Abutment and fillet dimensions (mm)			Mass (kg)	Bearing No.	
d	D	B	r (min)	Open type	Shield type	Contact seal type	Non-contact seal type	Grease lubrication Open type	Oil lubrication Open type	NSL, 2NSL				da (min)	Da (max)	ra (max)						
300	380	38	2.1	6860	—	—	—	—	—	—	—	166000	219000	16.0	1500	—	1700	311	369	2.0	10.4	6860
	420	56	3	6960	—	—	—	—	—	—	—	269000	370000	16.5	1400	—	1600	311	409	2.5	22.8	6960
	460	74	4	6060	—	—	—	—	—	—	—	355000	490000	15.0	1300	—	1500	313	447	3.0	43.8	6060
	540	85	5	6260	—	—	—	—	—	—	—	465000	670000	15.2	950	—	1200	322	518	4.0	88.6	6260
320	400	38	2.1	6864	—	—	—	—	—	—	—	164000	218000	15.9	1400	—	1600	330	389	2.0	10.9	6864
	440	56	3	6964	—	—	—	—	—	—	—	266000	370000	16.4	1300	—	1500	331	429	2.5	24.1	6964
	480	74	4	6064	—	—	—	—	—	—	—	340000	470000	15.3	1200	—	1400	333	467	3.0	46.1	6064