



SKF Single row deep groove ball bearing Steel Closure on one side

Single-row deep groove ball bearings are extremely versatile. They are simple in design, suitable for high to very high speeds, very robust and thus low-maintenance. Thanks to the deep grooves and the close contact between the grooves and the balls, deep groove ball bearings are extremely well suited to tolerate both radial loads and axial loads in both directions, even at high speeds. Both open (unsealed) and sealed versions of the single-row deep groove ball bearings are available.

Bearing with cover plates Z:

The cover plates, manufactured from sheet steel, are primarily suited to applications where the i-race of the bearing rotates. There is a sealing gap between the outer edge of the plate and the i-race. The clearance between the cover plate and the i-race is designed in such a way that no contact can be made, even if the bearing exhibits a large amount of radial play. To prevent corrosion, the cover plates are galvanized.

Bearing with low-friction seals RSL, RZ:

These contact seals are made from oil-resistant and wear-resistant nitrile butadiene rubber (NBR) with sheet steel reinforcement. There is a very narrow clearance between the seal and the i-race, which prevents contact between the two components. This allows bearings with low-friction seals to be used at high speeds in the same manner as bearings with Z-seals, although the former offer better sealing performance.

Bearing with contact seals RSH, RS1:

Contact seals are made from nitrile butadiene rubber (NBR) with sheet steel reinforcement. The seals are fitted in the recesses of the o-race. In contrast to the low-friction seal, the contact seal makes contact with the i-race. The contact seal prevents the ingress of any dust or moisture into the bearing.

Characteristics

Series: 60

Type: 6209

Execution: Single row

Material: Steel

Sealing: Closure on one side

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
Max. 200 articles in the table						
624-Z/W64	4	13	5	CN (normal)	Steel	13198217
625-RZTN9/ CNHVT105B	5	16	5	CN (normal)	Plastic	13198224
608-ZTN9/C5MT33	8	22	7	C5	Plastic	13197486
608-RSH/W64	8	22	7	CN (normal)	Steel	13197482
609-RZTN9/C4HMT33	9	24	7	C4	Plastic	13197498
629-RSHTN9/C3LT	9	26	8	C3	Plastic	13198269
6000-Z/C2ELHT23	10	26	8	C2	Steel	13197112
6000-Z/C3HVT183	10	26	8	C3	Steel	13197113
6000-Z/C3	10	26	8	C3	Steel	23757545
6000-ZTN9/LT	10	26	8	CN (normal)	Plastic	23757546
6000-Z	10	26	8	CN (normal)	Steel	23757544
6000-RSH	10	26	8	CN (normal)	Steel	23757543
6200-Z/C3	10	30	9	C3	Steel	23758179
6200-Z	10	30	9	CN (normal)	Steel	23758178
6200-RSH/C3LT	10	30	9	C3	Steel	13197653
6200-RSH	10	30	9	CN (normal)	Steel	23758177
6300-Z	10	35	11	CN (normal)	Steel	23758782

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Manufacturer ID	Inner diameter	Outer diameter	Width	Internal clearance	Cage	Article
	mm	mm	mm			Max. 200 articles in the table
6001-Z/C2	12	28	8	C2	Steel	13197147
6001-ZTN9/C3VM036	12	28	8	C3	Plastic	13197151
6001-Z/C3	12	28	8	C3	Steel	23757562
6001-ZTN9/LT	12	28	8	CN (normal)	Plastic	23757563
6001-Z	12	28	8	CN (normal)	Steel	23757561
6001-RSH/C3	12	28	8	C3	Steel	13197146
6001-RSH	12	28	8	CN (normal)	Steel	23757560
6201-Z/C3	12	32	10	C3	Steel	23758202
6201-ZTN9/VM025	12	32	10	CN (normal)	Plastic	13197699
6201-Z	12	32	10	CN (normal)	Steel	23758201
6201-RSH/C3	12	32	10	C3	Steel	23758200
6201-RSH	12	32	10	CN (normal)	Steel	23758199
6301-RSH	12	37	12	CN (normal)	Steel	23758803
6002-Z/C3	15	32	9	C3	Steel	23757584
6002-Z/C4	15	32	9	C4	Steel	13197173
6002-Z	15	32	9	CN (normal)	Steel	23757583
6002-RS1/C3	15	32	9	C3	Steel	13197172
6002-RS1	15	32	9	CN (normal)	Steel	13197171
6002-RSH	15	32	9	CN (normal)	Steel	23757582
6202-Z/C3	15	35	11	C3	Steel	23758232
6202-ZTN9/VT808	15	35	11	CN (normal)	Plastic	13197749
6202-Z	15	35	11	CN (normal)	Steel	23758231
6202-Z/W64	15	35	11	CN (normal)	Steel	13197748
6202-RSH/C3MT	15	35	11	C3	Steel	13197742
6202-RSH/LT	15	35	11	CN (normal)	Steel	13197745
6202-RSH/GMG	15	35	11	CN (normal)	Steel	13197744
6202-RSH/CNL	15	35	11	CN (normal)	Steel	13197743
6202-RSH	15	35	11	CN (normal)	Steel	23758230
6302-ZTN9/LHT23	15	42	13	CN (normal)	Plastic	12121403
61803-RS1	17	26	5	CN (normal)	Steel	13197509
6003-Z	17	35	10	CN (normal)	Steel	23757599
6003-RSH/C3	17	35	10	C3	Steel	13197193
6003-RSH	17	35	10	CN (normal)	Steel	23757598
6003-RSL	17	35	10	CN (normal)	Steel	13197195
6003-RSH/GWM	17	35	10	CN (normal)	Steel	13197194
6203-Z/C3	17	40	12	C3	Steel	23758261
6203-Z	17	40	12	CN (normal)	Steel	23758260
6203-Z/W64	17	40	12	CN (normal)	Steel	13197813
6203-RSH/C3	17	40	12	C3	Steel	23758259
6203-RSH/GJN	17	40	12	CN (normal)	Steel	13197809
6203-RSH	17	40	12	CN (normal)	Steel	23758258
6303-ZTN9/C3VM025	17	47	14	C3	Plastic	13198352
6004-Z/C3	20	42	12	C3	Steel	23757626
6004 ZJEM	20	42	12	CN (normal)	Steel	12121350
6004-Z	20	42	12	CN (normal)	Steel	23757625
6004-RSH	20	42	12	CN (normal)	Steel	23757624
6204-Z/C3	20	47	14	C3	Steel	23758295
6204-Z	20	47	14	CN (normal)	Steel	23758294
6204-RSH	20	47	14	CN (normal)	Steel	23758293
6005-Z/C3	25	47	12	C3	Steel	23757648
6005-RSH	25	47	12	CN (normal)	Steel	23757647
6205-Z/C3	25	52	15	C3	Steel	23758338
6205-Z	25	52	15	CN (normal)	Steel	23758337

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	mm	mm	mm			Max. 200 articles in the table
6205-RSH/C3	25	52	15	C3	Steel	23758336
6205-RS2/C3S0	25	52	15	C3	Steel	13529740
6205-RSH/MT	25	52	15	CN (normal)	Steel	13197898
6205-RSH	25	52	15	CN (normal)	Steel	23758335
6006-Z/C3	30	55	13	C3	Steel	23757671
6006-Z	30	55	13	CN (normal)	Steel	23757670
6006-RS1/C3	30	55	13	C3	Steel	13197264
6006-RS1	30	55	13	CN (normal)	Steel	23757669
6206-Z/C2E	30	62	16	C2	Steel	13197950
6206-Z/C3	30	62	16	C3	Steel	23758376
6206-Z/C4	30	62	16	C4	Steel	23758377
6206-Z/GJN	30	62	16	CN (normal)	Steel	13197951
6206-Z	30	62	16	CN (normal)	Steel	23758375
6206-RS1/C3	30	62	16	C3	Steel	23758373
6206-RS1/MT	30	62	16	CN (normal)	Steel	13197949
6206-RS1	30	62	16	CN (normal)	Steel	23758372
6306-Z/W64	30	72	19	CN (normal)	Steel	13198453
6007-Z/C3	35	62	14	C3	Steel	23757688
6007-Z	35	62	14	CN (normal)	Steel	23757687
6007-RS1	35	62	14	CN (normal)	Steel	23757686
6207-Z/C2E	35	72	17	C2	Steel	13197990
6207-Z/C3	35	72	17	C3	Steel	23758404
6207-Z/C3VT264	35	72	17	C3	Steel	12174052
6207-Z	35	72	17	CN (normal)	Steel	23758403
6207-RS1/MT	35	72	17	CN (normal)	Steel	13197986
6207-RS1	35	72	17	CN (normal)	Steel	23758402
6207-RS1/W64	35	72	17	CN (normal)	Steel	13197987
6008-Z/C3	40	68	15	C3	Steel	23757705
6008-Z	40	68	15	CN (normal)	Steel	23757704
6008-RS1/C3	40	68	15	C3	Steel	23757703
6008-RS1	40	68	15	CN (normal)	Steel	23757702
6208-ZTN9/C3	40	80	18	C3	Plastic	23758435
6208-Z/C3	40	80	18	C3	Steel	23758432
6208-Z/C4	40	80	18	C4	Steel	23758433
6208-Z	40	80	18	CN (normal)	Steel	23758431
6208-RS1	40	80	18	CN (normal)	Steel	23758430
6308-Z/W64	40	90	23	CN (normal)	Steel	13198514
6009-Z/C3	45	75	16	C3	Steel	23757716
6009-Z	45	75	16	CN (normal)	Steel	23757715
6009-RS1	45	75	16	CN (normal)	Steel	23757714
6209-Z/C3	45	85	19	C3	Steel	23758459
6209-Z	45	85	19	CN (normal)	Steel	23758458
6209-RS1/C3	45	85	19	C3	Steel	23758457
6209-RS1	45	85	19	CN (normal)	Steel	23758456
6209-ZNBR/C3	45	91.6	19	C3	Steel	13198039
6309-RS1/C3GJN	45	100	25	C3	Steel	13198540
6010-Z/C3	50	80	16	C3	Steel	23757730
6010-Z	50	80	16	CN (normal)	Steel	23757729
6010-RS1/C3	50	80	16	C3	Steel	13197330
6010-RS1	50	80	16	CN (normal)	Steel	23757728
6210-Z/C3	50	90	20	C3	Steel	23758484
6210-Z	50	90	20	CN (normal)	Steel	23758483
6210-RS1/C3	50	90	20	C3	Steel	23758482

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	mm	mm	mm			Max. 200 articles in the table
6210-RS1	50	90	20	CN (normal)	Steel	23758481
6310-Z/C4	50	110	27	C4	Steel	13529798
6310-RS1/C3	50	110	27	C3	Steel	23225136
6011-Z/C3	55	90	18	C3	Steel	13197339
6011-Z	55	90	18	CN (normal)	Steel	23757741
6011-RS1/C3	55	90	18	C3	Steel	13197338
6011-RS1	55	90	18	CN (normal)	Steel	23757740
6211-Z/C3	55	100	21	C3	Steel	23758502
6211-Z	55	100	21	CN (normal)	Steel	23758501
6211-RS1/C3	55	100	21	C3	Steel	13198071
6211-RS1	55	100	21	CN (normal)	Steel	23758500
6311-Z/C3GJN	55	120	29	C3	Steel	13198567
6311-Z/GJN	55	120	29	CN (normal)	Steel	13198569
6311-RS1/C3	55	120	29	C3	Steel	12121417
6012-Z	60	95	18	CN (normal)	Steel	23757751
6012-RS1/C3GJN	60	95	18	C3	Steel	13197348
6012-RS1	60	95	18	CN (normal)	Steel	23757750
6212-Z/C3GJN	60	110	22	C3	Steel	13198095
6212-Z/C3	60	110	22	C3	Steel	23758521
6212-Z/C4	60	110	22	C4	Steel	23758522
6212-Z	60	110	22	CN (normal)	Steel	23758520
6212-RS1/C3	60	110	22	C3	Steel	23225120
6212-RS1	60	110	22	CN (normal)	Steel	23758519
6312-Z/C3GJN	60	130	31	C3	Steel	13198597
6312-RS1/C3	60	130	31	C3	Steel	23225140
6013-Z	65	100	18	CN (normal)	Steel	23757760
6013-RS1	65	100	18	CN (normal)	Steel	23757759
6213-Z/C3	65	120	23	C3	Steel	23758542
6213-Z	65	120	23	CN (normal)	Steel	23758541
6213-RS1	65	120	23	CN (normal)	Steel	23758540
6313-Z/C3GJN	65	140	33	C3	Steel	13198610
6014-Z	70	110	20	CN (normal)	Steel	23757773
6014-RS1	70	110	20	CN (normal)	Steel	23757772
6214-Z/C3	70	125	24	C3	Steel	23758561
6214-Z	70	125	24	CN (normal)	Steel	23758560
6214-RS1	70	125	24	CN (normal)	Steel	23758559
6314-Z/C3GJN	70	150	35	C3	Steel	13198622
6015-Z/C3	75	115	20	C3	Steel	13197369
6015-Z	75	115	20	CN (normal)	Steel	23757784
6015-RS1	75	115	20	CN (normal)	Steel	23757783
6215-Z/C3	75	130	25	C3	Steel	23758575
6215-Z	75	130	25	CN (normal)	Steel	23758574
6215-RS1	75	130	25	CN (normal)	Steel	23758573
6315-Z/C2	75	160	37	C2	Steel	13198638
6016-Z/C3	80	125	22	C3	Steel	13529718
6016-Z/C4M	80	125	22	C4	Steel	13197379
6016-Z	80	125	22	CN (normal)	Steel	23757795
6016-RS1/C3	80	125	22	C3	Steel	13197378
6216-Z/C3	80	140	26	C3	Steel	23758591
6216-Z	80	140	26	CN (normal)	Steel	23758590
6216-RS1	80	140	26	CN (normal)	Steel	23758589
6316-Z/C3S1	80	170	39	C3	Steel	13198647
6017-Z	85	130	22	CN (normal)	Steel	23757804

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	mm	mm	mm			Max. 200 articles in the table
6017-RS1	85	130	22	CN (normal)	Steel	13197390
6217-Z/C3	85	150	28	C3	Steel	23758604
6217-Z	85	150	28	CN (normal)	Steel	23758603
6217-RS1	85	150	28	CN (normal)	Steel	13198156
6317-Z/C3	85	180	41	C3	Steel	12718174
6018-Z	90	140	24	CN (normal)	Steel	23757812
6218-Z/C3	90	160	30	C3	Steel	12174054
6219-Z	90	160	30	CN (normal)	Steel	23758622
6218-Z	90	160	30	CN (normal)	Steel	23758614
6218-RS1	90	160	30	CN (normal)	Steel	13635808
6019-Z	95	145	24	CN (normal)	Steel	23757819
6319-Z/C3	95	200	45	C3	Steel	12174067
6319-Z	95	200	45	CN (normal)	Steel	13198652
6020-Z	100	150	24	CN (normal)	Steel	23757829
6220-Z	100	180	34	CN (normal)	Steel	23758631
6022-Z	110	170	28	CN (normal)	Steel	23757843
6222-Z/C3	110	200	38	C3	Steel	23758667
6222-Z	110	200	38	CN (normal)	Steel	23758666
6024-Z/C3S1GJN	120	180	28	C3	Steel	13197417
6024-Z/C3	120	180	28	C3	Steel	23757851
6024-Z	120	180	28	CN (normal)	Steel	23757850
6024-RS1	120	180	28	CN (normal)	Steel	23224104
6030-Z	150	225	35	CN (normal)	Steel	13197421

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