

SKF Double row angular contact ball bearing Series: 33

Angular contact ball bearings have raceways in the inner and outer rings that are displaced relative to each other in the direction of the bearing axis. This means that they are designed to accommodate combined loads, i.e. simultaneously acting radial and axial loads. The axial load carrying capacity of angular contact ball bearings increases with increasing contact angle. The contact angle is defined as the angle between the line joining the points of contact of the ball and the raceways in the radial plane, along which the load is transmitted from one raceway to another, and a line perpendicular to the bearing axis. Angular contact ball bearings are manufactured in a wide variety of designs and sizes. The most commonly used designs are:

- single row angular contact ball bearings
- double row angular contact ball bearings
- four-point contact ball bearings

Double row angular contact ball bearing

Double row angular contact ball bearings correspond in design to two single row angular contact ball bearings arranged back-to-back, but take up less axial space. They can accommodate radial loads as well as axial loads acting in both directions. They provide stiff bearing arrangements and are able to accommodate tilting moments. The bearings are available in a basic open and a sealed design. Basic design bearings of the 32 and 33 series have a 30° contact angle, have an optimized internal geometry to provide high radial and axial load carrying capacity and quiet operation. The bearings are also available capped with a contact seal or shield. Bearings capped on both sides are lubricated for life and are considered virtually maintenance free.

Characteristics

Series: 33

With sealing: No

Application

- Recommended in: Chemical

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Contact angle °	Cage	Article
3302 ATN9	15	42	19	30	Plastic	23756981
3302 ATN9/C3	15	42	19	30	Plastic	23756982
3303 ATN9/C3	17	47	22.2	30	Plastic	23756992
3303 ATN9	17	47	22.2	30	Plastic	23756991
3304 ATN9/C3	20	52	22.2	30	Plastic	23757002
3304 ATN9	20	52	22.2	30	Plastic	23757001
3304 A	20	52	22.2	30	Steel	23756995
3304 A/C3	20	52	22.2	30	Steel	23756999
3305 ATN9/C3	25	62	25.4	30	Plastic	23757012
3305 ATN9	25	62	25.4	30	Plastic	23757011
3305 A	25	62	25.4	30	Steel	23757003
3305 A/C3	25	62	25.4	30	Steel	23757009
3305 ANR/C3	25	62	25.4	30	Steel	23757010
3305 ANR	25	62	25.4	30	Steel	12140758
3306 ATN9/C3	30	72	30.2	30	Plastic	23757019
3306 ATN9	30	72	30.2	30	Plastic	23757018
3306 A	30	72	30.2	30	Steel	23757013
3306 ANR	30	72	30.2	30	Steel	23757017
3306 A/C3	30	72	30.2	30	Steel	23757016
3306 ANR/C3	30	72	30.2	30	Steel	23223538
3307 ATN9/C3	35	80	34.9	30	Plastic	23757027
3307 ATN9	35	80	34.9	30	Plastic	23757026

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Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Contact angle °	Cage	Article
3307 A/C3	35	80	34.9	30	Steel	23757025
3307 A	35	80	34.9	30	Steel	23757021
3307 ANR	35	86.6	34.9	30	Steel	13529641
3308 ATN9	40	90	36.5	30	Plastic	23757037
3308 ATN9/C3	40	90	36.5	30	Plastic	23757038
3308 ATN9/W64	40	90	36.5	30	Plastic	13196939
3308 A	40	90	36.5	30	Steel	23757031
3308 A/C3	40	90	36.5	30	Steel	23757034
3308 ENR/C3	40	96.5	36.5	30	Steel	11888086
3308 ANR/C3	40	96.5	36.5	30	Steel	23757036
3308 ANR	40	96.5	36.5	30	Steel	23757035
3309 ATN9	45	100	39.7	30	Plastic	23757049
3309 ATN9/C3	45	100	39.7	30	Plastic	23757050
3309 A/C3W64	45	100	39.7	30	Steel	24002228
3309 A/C3	45	100	39.7	30	Steel	23757048
3309 A	45	100	39.7	30	Steel	23757043
3309 ANR/C3	45	106.5	39.7	30	Steel	12084202
3309 ANR	45	106.5	39.7	30	Steel	24002229
3310 ATN9/C3	50	110	44.4	30	Plastic	24035679
3310 ATN9	50	110	44.4	30	Plastic	23757059
3310 A	50	110	44.4	30	Steel	23757053
3310 A/C3	50	110	44.4	30	Steel	23757056
3310 A/W64	50	110	44.4	30	Steel	13196942
3310 ANR	50	116.6	44.4	30	Steel	23757057
3310 ANR/C3	50	116.6	44.4	30	Steel	23757058
3311 ATN9/C3	55	120	49.2	30	Plastic	24002230
3311 A/C3	55	120	49.2	30	Steel	23757073
3311 A	55	120	49.2	30	Steel	23757068
3311 ANR/C3	55	130	49	30	Steel	23757075
3311 ANR	55	130	49	30	Steel	23757074
3312 A/C3	60	130	54	30	Steel	23757092
3312 ANR	60	130	54	30	Steel	23223554
3312 A	60	130	54	30	Steel	23757089
3312 ANR/C3	60	139.7	54	30	Steel	13529658
3313 A	65	140	58.7	30	Steel	23757097
3313 A/C3	65	140	58.7	30	Steel	23757099
3313 A/C3W64	65	140	58.7	30	Steel	13196952
3313 ANR	65	150	59	30	Steel	23223557
3313 ANR/C3	65	150	59	30	Steel	23757101
3314 A/C3	70	150	63.5	30	Steel	23757106
3314 A	70	150	63.5	30	Steel	23757105
3314 A/W64	70	150	63.5	30	Steel	13196953
3314 ANR	70	160	64	30	Steel	23757107
3314 ANR/C3	70	160	64	30	Steel	23757108
3315 A/C3	75	160	68.3	30	Steel	23757113
3315 A	75	160	68.3	30	Steel	23757111
3315 ANR/C3	75	160	68.3	30	Steel	23223560
3316 E/C3	80	170	68	30	Steel	12174039
3316 A/C3	80	170	68.3	30	Steel	23757117
3316 A	80	170	68.3	30	Steel	23757116
3317 A	85	180	73	30	Steel	23757118
3317 A/C3	85	180	73	30	Steel	23757119
3318 ATN9/C3	90	190	73	30	Plastic	24002231

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Manufacturer ID	Inner diameter	Outer diameter	Width	Contact angle	Cage	Article
	mm	mm	mm	°		
3318 A	90	190	73	30	Steel	23757121
3318 A/C3	90	190	73	30	Steel	23757122
3319 A/C3	95	200	77.8	30	Steel	24002233
3319 A	95	200	77.8	30	Steel	23757123
3320 A	100	215	82.6	30	Steel	23757128
3320 A/C3	100	215	82.6	30	Steel	24002234
3322 A/C3	110	240	92.1	30	Steel	24002235
3322 A	110	240	92.1	30	Steel	23757143

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