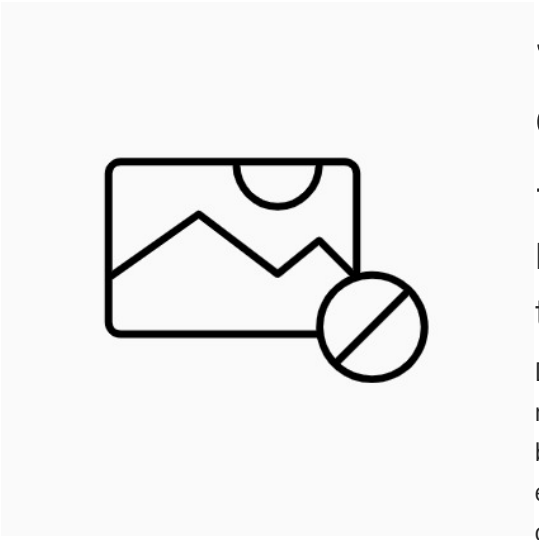


305272 DDouble row angular contact ball bearing with two-piece inner ring and relubrication feature

Double row angular contact ball bearing with two-piece inner ring and relubrication feature

Double row angular contact ball bearing, with two-piece inner ring and relubrication feature, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement. The two-piece inner ring enables incorporation of more balls, resulting in higher load carrying capacity. The annular lubrication groove and holes in the outer ring facilitates relubrication.

- Accommodate very high axial loads in both directions, radial loads, and tilting moments
- Relubrication feature
- Suitable where a stiff bearing arrangement is required
- Require less axial space than equivalent pair of single row angular contact ball bearings

Overview

Dimensions

Bore diameter	220 mm
Outside diameter	309.5 mm
Width	76 mm
Contact angle	32 °

Performance

Basic dynamic load rating	312 kN
Basic static load rating	520 kN
Reference speed	2 000 r/min
Limiting speed	2 000 r/min

Properties

Contact type	Normal contact (two-point contact)
Number of rows	2
Locating feature, bearing outer ring	None
Ring type	Two-piece inner ring and one-piece outer ring
Cage	Machined metal
Arrangement of contact angle (double-row bearing)	Back-to-back (O)

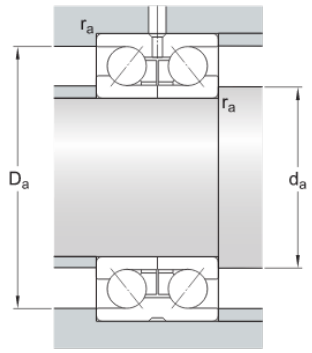
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	NSTD
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	With

Technical Specification

NOT FOUND

Dimensions

d	220 mm	Bore diameter
D	309.5 mm	Outside diameter
B	76 mm	Width
d_1	≈ 252.5 mm	Shoulder diameter inner ring for two-piece inner ring
D_1	≈ 286 mm	Shoulder diameter outer ring
b	13.9 mm	Width annular lubrication groove at outer ring
K	7.5 mm	Diameter lubrication hole (outer ring)
$r_{1,2}$	min. 2.1 mm	Chamfer dimension inner ring for two-piece inner ring
a	204 mm	Distance pressure point(s)



Abutment dimensions

d_a	min. 225 mm	Abutment diameter shaft
D_a	max. 284 mm	Abutment diameter housing
r_a	max. 2.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	312 kN
Basic static load rating	C_0	520 kN
Fatigue load limit	P_u	13.4 kN
Reference speed		2 000 r/min

Limiting speed		2 000 r/min
Calculation factor	k_r	0.095
Limiting value	e	0.86
Calculation factor	X	0.62
Calculation factor	Y_0	0.63
Calculation factor	Y_1	0.73
Calculation factor	Y_2	1.17

Mass

Mass bearing	17.7 kg

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