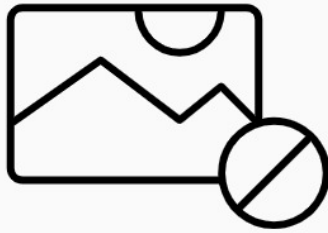


305428 D Double row angular contact ball bearing with two-piece inner ring and relubrication feature



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

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	200 mm
Outside diameter	279.5 mm
Width	76 mm
Contact angle	40 °

Performance

Basic dynamic load rating	242 kN
Basic static load rating	380 kN
Reference speed	1 900 r/min
Limiting speed	2 400 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

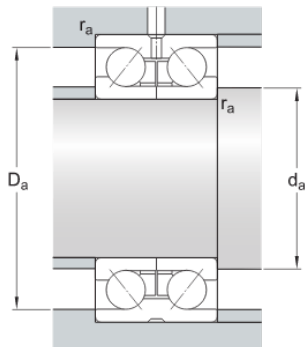


Dimensions

d	200 mm	Bore diameter
D	279.5 mm	Outside diameter
B	76 mm	Width
d_1	≈ 230 mm	Shoulder diameter inner ring for two-piece inner ring
D_1	≈ 261.9 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	174 mm	Distance pressure point(s)

Abutment dimensions

d_a	min. 205 mm	Abutment diameter shaft
D_a	max. 260 mm	Abutment diameter housing
r_a	max. 2.1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	242 kN
Basic static load rating	C_0	380 kN
Fatigue load limit	P_u	10.4 kN
Reference speed		1 900 r/min

Limiting speed		2 400 r/min
Calculation factor	k_r	0.095
Limiting value	e	1.14
Calculation factor	X	0.57
Calculation factor	Y_0	0.52
Calculation factor	Y_1	0.55
Calculation factor	Y_2	0.93

Mass

Mass bearing		13.7 kg
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