



Image may differ from product. See technical specification for details.

305262 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, 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	180 mm
Outside diameter	259.5 mm
Width	66 mm
Contact angle	32 °

Performance

Basic dynamic load rating	225 kN
Basic static load rating	310 kN
Reference speed	2 400 r/min
Limiting speed	2 600 r/min

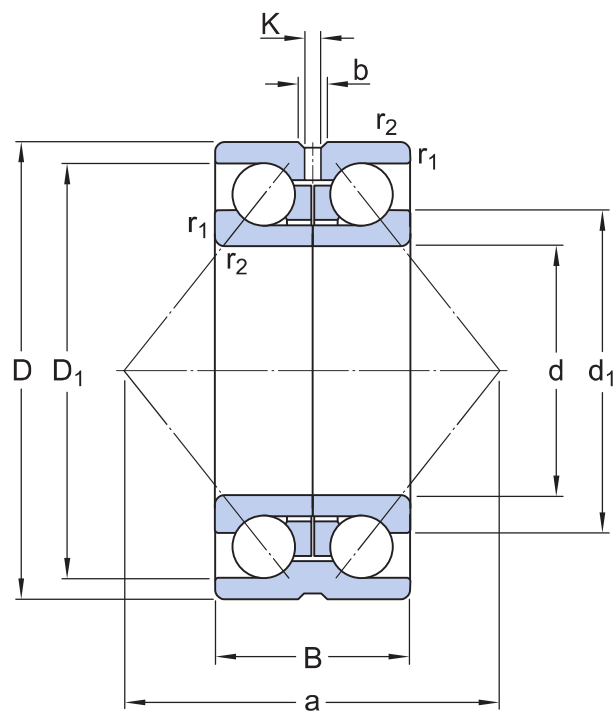
Properties

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

Logistics

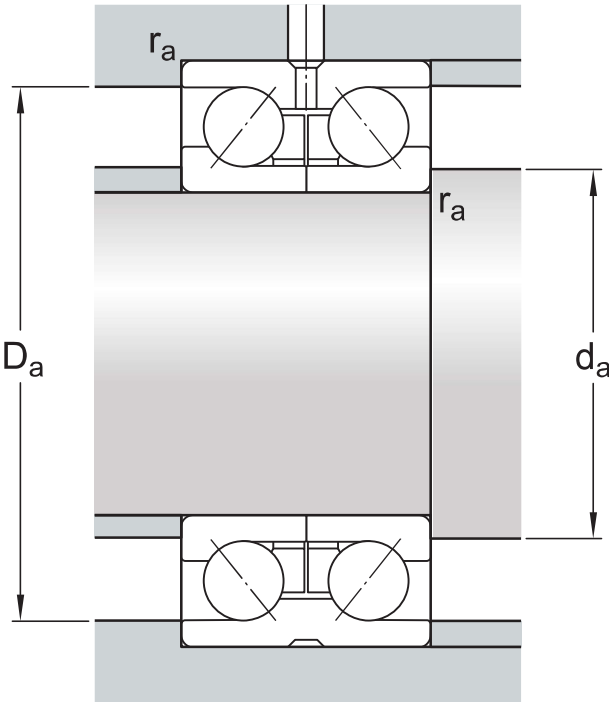
Product net weight	11.2 kg
eClass code	23-05-08-03
UNSPSC code	31171531

Technical specification



Dimensions

d	180 mm	Bore diameter
D	259.5 mm	Outside diameter
B	66 mm	Width
d ₁	≈ 208 mm	Shoulder diameter inner ring for two-piece inner ring
D ₁	≈ 240.1 mm	Shoulder diameter outer ring
b	17.5 mm	Width annular lubrication groove at outer ring
K	6 mm	Diameter lubrication hole (outer ring)
r _{1,2}	min. 2 mm	Chamfer dimension inner ring for two-piece inner ring
a	170 mm	Distance pressure point(s)



Abutment dimensions

d_a	min. 185 mm	Abutment diameter shaft
D_a	max. 238 mm	Abutment diameter housing
r_a	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	225 kN
Basic static load rating	C_0	310 kN
Fatigue load limit	P_u	8.8 kN
Reference speed		2 400 r/min
Limiting speed		2 600 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

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5
- Internal clearance: table, drawing no

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Designation system	 Engineering information Principles of rolling bearing selection General bearing knowledge Bearing selection process Bearing interfaces Seat tolerances for standard conditions Selecting internal clearance or preload Lubrication Sealing, mounting and dismounting Bearing failure and how to prevent it	 Tools SKF Product select SimPro Quick Bearing Frequency Calculator LubeSelect for SKF greases Heater selection tool SKF mounting and dismounting instructions
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