



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

305608 B

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

Double row angular contact ball bearing, with wide and 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 relubication.

- Wide, two-piece inner ring
- Accommodate very high axial loads in both directions, radial loads, and tilting moments
- Relubrication feature
- Suitable where a stiff bearing arrangement is required

Overview

Dimensions

Bore diameter	160 mm
Outside diameter	215 mm
Width	56 mm
Contact angle	40 °

Performance

Basic dynamic load rating	135 kN
Basic static load rating	220 kN
Reference speed	2 800 r/min
Limiting speed	3 000 r/min

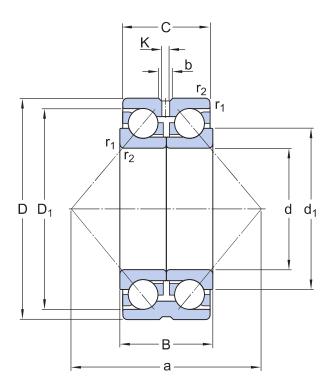
Properties

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

Logistics

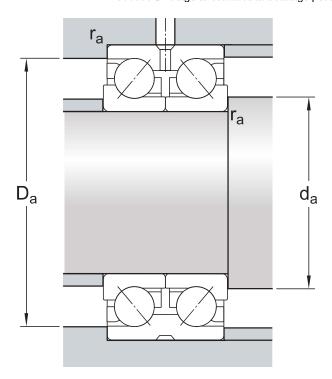
Product net weight	5.44 kg
eClass code	23-05-08-03
UNSPSC code	31171531

Technical specification



Dimensions

d	160 mm	Bore diameter
D	215 mm	Outside diameter
В	56 mm	Width
С	50 mm	Width outer ring
d_1	≈ 181 mm	Shoulder diameter inner ring for two-piece inner ring
D_1	≈ 203.1 mm	Shoulder diameter outer ring
b	8.5 mm	Width annular lubrication groove at outer ring
K	4.5 mm	Diameter lubrication hole (outer ring)
r _{1,2}	min. 2 mm	Chamfer dimension inner ring for two-piece inner ring
a	185 mm	Distance pressure point(s)



Abutment dimensions

d _a	min. 165 mm	Abutment diameter shaft
D _a	max. 201 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	С	135 kN
Basic static load rating	C_0	220 kN
Fatigue load limit	P _u	6.8 kN
Reference speed		2 800 r/min
Limiting speed		3 000 r/min
Calculation factor	k _r	0.095
Limiting value	е	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

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



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