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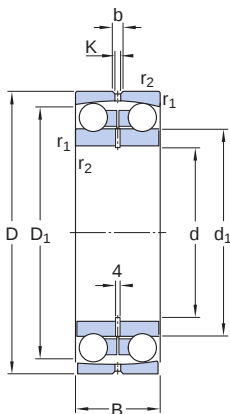
Large-size self-aligning ball bearings have two rows of balls, a common sphered raceway in the outer ring and two deep uninterrupted raceway grooves in the inner ring. They are insensitive to angular misalignment of the shaft relative to the housing. The annular lubrication groove in the outer ring and holes in the inner and outer rings facilitate ease of relubrication.



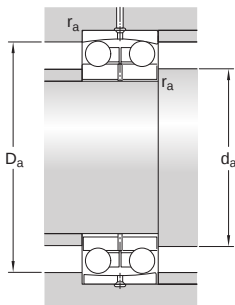
- Accommodate static and dynamic misalignment
- Excellent high-speed performance
- Excellent light load performance
- Low friction
- Relubrication feature

Bore type

Cylindrical



Dimensions		
d	240 mm	Bore diameter
D	320 mm	Outside diameter
B	60 mm	Width
d ₁	≈ 268.5 mm	Shoulder diameter inner ring
D ₁	≈ 297.6 mm	Shoulder diameter outer ring
b	8.3 mm	Width annular lubrication groove at outer ring
K	4.5 mm	Diameter lubrication hole (outer ring)
r _{1,2}	min. 2.1 mm	Chamfer dimension



Abutment dimensions		
da	min. 251 mm	Abutment diameter shaft
Da	max. 309 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	60.5 kN
Basic static load rating	C ₀	30.5 kN
Fatigue load limit	P _u	0.98 kN
Reference speed		3 600 r/min
Limiting speed		2 200 r/min
Permissible angular misalignment	α	3 °
Calculation factor	k _r	0.015
Limiting value	e	0.16
Calculation factor	Y ₀	4
Calculation factor	Y ₁	3.9
Calculation factor	Y ₂	6.1

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, JS7
- Radial internal clearance: table

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits