



7340 BCBM

Single row angular contact ball bearing

These single row angular contact ball bearings can accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They can operate at high speeds and, depending on the variant, even very high speeds. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

- High-speed capability
- Accommodate relatively high radial loads and large unilateral axial loads

Overview

Dimensions

Bore diameter	200 mm
Contact angle	40 °
Outside diameter	420 mm
Width	80 mm

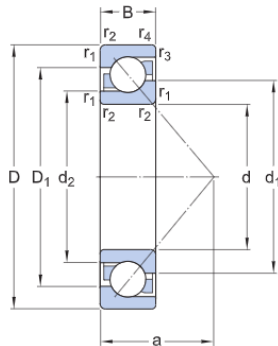
Performance

Basic dynamic load rating	462 kN
Basic static load rating	655 kN
Limiting speed	2 200 r/min
Reference speed	1 900 r/min

Properties

Axial internal clearance	Not applicable
Cage	Machined metal
Coating	Without
Contact type	Normal contact (two-point contact)
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Bearing steel
Number of rows	1
Relubrication feature	Without
Ring type	One-piece inner and outer rings
Sealing	Without
Universal matching bearing	Yes

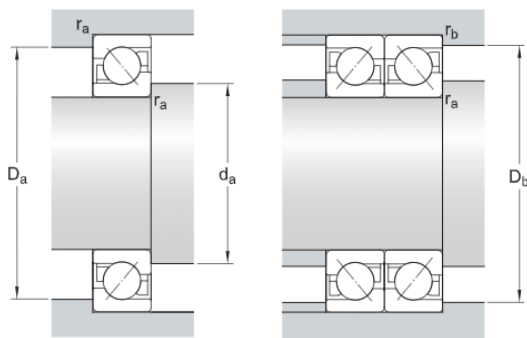
Technical Specification



Dimensions

d	200 mm	Bore diameter
D	420 mm	Outside diameter
B	80 mm	Width
d ₁	≈ 286.8 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 247.1 mm	Shoulder diameter of inner ring (small side face)
D ₁	≈ 339.45 mm	Shoulder diameter of outer ring (large side face)
a	170 mm	Distance side face to pressure point
r _{1,2}	min. 5 mm	Chamfer dimension
r _{3,4}	min. 2 mm	Chamfer dimension

Abutment dimensions



d _a	min. 220 mm	Diameter of shaft abutment
D _a	max. 400 mm	Abutment diameter housing
D _b	max. 410 mm	Diameter of housing abutment
r _a	max. 4 mm	Radius of fillet
r _b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	462 kN
Basic static load rating	C ₀	655 kN
Fatigue load limit	P _u	15.6 kN
Reference speed		1 900 r/min
Limiting speed		2 200 r/min

Minimum axial load factor	A	7.5
Minimum radial load factor	k_r	0.09
Limiting value	e	1.14

Single bearing or bearing pair arranged in tandem

Calculation factor (single, tandem)	X	0.35
Calculation factor (single, tandem)	Y_0	0.26
Calculation factor (single, tandem)	Y_2	0.57

Bearing pair arranged back-to-back or face-to-face

Calculation factor (back-to-back, face-to-face)	X	0.57
Calculation factor (back-to-back, face-to-face)	Y_0	0.52
Calculation factor (back-to-back, face-to-face)	Y_1	0.55
Calculation factor (back-to-back, face-to-face)	Y_2	0.93

Mass

Mass	53 kg
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