



Overview

7207 BECBM

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

Dimensions

Bore diameter	35 mm
Outside diameter	72 mm
Width	17 mm
Contact angle	40 °

Performance

Basic dynamic load rating	31 kN
Basic static load rating	20.8 kN
Reference speed	11 000 r/min
Limiting speed	15 000 r/min
SKF performance class	SKF Explorer

Properties

Contact type	Normal contact (two-point contact)
Number of rows	1
Locating feature, bearing outer ring	None
Ring type	One-piece inner and outer rings
Cage	Machined brass
Matched arrangement	No
Universal matching bearing	Yes
Axial internal clearance	Not applicable
Matched condition (axial clearance/ preload)	Axial clearance CB
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Coating	Without

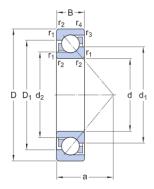


Sealing	Without
Lubricant	None
Relubrication feature	Without



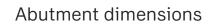
Technical Specification

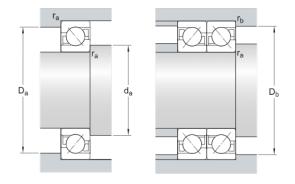
SKF performance class SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
В	17 mm	Width
d_1	≈ 49.65 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 41.96 mm	Shoulder diameter of inner ring (small side face)
D_1	≈ 58.25 mm	Shoulder diameter of outer ring (large side face)
а	31 mm	Distance side face to pressure point
r _{1,2}	min. 1.1 mm	Chamfer dimension
r _{3,4}	min. 0.6 mm	Chamfer dimension





d _a	min. 42 mm	Diameter of shaft abutment
D_a	max. 65 mm	Abutment diameter housing
D _b	max. 67.8 mm	Diameter of housing abutment
r _a	max.1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data



Basic dynamic load rating	С		31 kN
Basic static load rating	C_0		20.8 kN
Fatigue load limit	$P_{\rm u}$		0.88 kN
Reference speed		1	l1 000 r/min
Limiting speed		1	.5 000 r/min
Minimum axial load factor	А		0.00674
Minimum radial load factor	k _r		0.095
Limiting value	е		1.14
Single bearing or bearing pair arranged in tandem			
Calculation factor (single, tandem)		Χ	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)		Χ	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	0.28 kg
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