

Overview

7308 BEGBP



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	40 mm
Outside diameter	90 mm
Width	23 mm
Contact angle	40 °

Performance

Basic dynamic load rating	50 kN
Basic static load rating	32.5 kN
Reference speed	9 500 r/min
Limiting speed	10 000 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	Non-metallic
Matched arrangement	No
Universal matching bearing	Yes
Axial internal clearance	Not applicable
Matched condition (axial clearance/ preload)	Medium preload
Tolerance class	Class P6 (P6)
Material, bearing	Bearing steel
Coating	Without

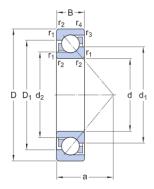


Sealing	Without
Lubricant	None
Relubrication feature	Without



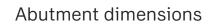
Technical Specification

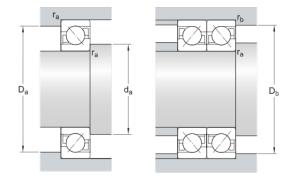
SKF performance class SKF Explorer



Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
В	23 mm	Width
d_1	≈ 59.7 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 49.55 mm	Shoulder diameter of inner ring (small side face)
D_1	≈ 71.6 mm	Shoulder diameter of outer ring (large side face)
а	39 mm	Distance side face to pressure point
r _{1,2}	min. 1.5 mm	Chamfer dimension
r _{3,4}	min. 1 mm	Chamfer dimension





a	min. 49 mm	Diameter of shaft abutment
D_a	max. 81 mm	Abutment diameter housing
D_b	max. 84.4 mm	Diameter of housing abutment
ra	max. 1.5 mm	Radius of fillet
r _b	max.1 mm	Radius of fillet

Calculation data



Basic dynamic load rating	С		50 kN
Basic static load rating	C_0		32.5 kN
Fatigue load limit	P_{u}		1.37 kN
Reference speed			9 500 r/min
Limiting speed		10	0 000 r/min
Minimum axial load factor	А		0.0173
Minimum radial load factor	k _r		0.1
Limiting value	е		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
Maga			

Mass

Mass	0.62 kg
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