

Overview

7313 BEGAF



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	65 mm
Outside diameter	140 mm
Width	33 mm
Contact angle	40 °

Performance

Basic dynamic load rating	108 kN
Basic static load rating	80 kN
Reference speed	6 000 r/min
Limiting speed	5 600 r/min

Properties

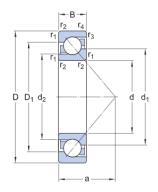
Contact type	Normal contact (two-point contact)	
Number of rows	1	
Locating feature, bearing outer ring	None	
Ring type	One-piece inner and outer rings	
Cage	Machined steel	
Matched arrangement	No	
Universal matching bearing	Yes	
Axial internal clearance	Not applicable	
Matched condition (axial clearance/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



Sealing	Without
Lubricant	None
Relubrication feature	Without

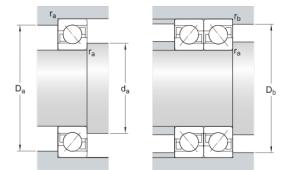


Technical Specification



Dimensions

Bore diameter	65 mm	d
Outside diameter	140 mm	D
Width	33 mm	В
Shoulder diameter of inner ring (large side face)	≈ 94.15 mm	d ₁
Shoulder diameter of inner ring (small side face)	≈ 78.45 mm	d_2
Shoulder diameter of outer ring (large side face)	≈ 112.85 mm	D_1
Distance side face to pressure point	60 mm	а
Chamfer dimension	min. 2.1 mm	r _{1,2}
Chamfer dimension	min. 1.1 mm	r _{3,4}



Abutment dimensions

d_a	min. 77 mm	Diameter of shaft abutment
D_a	max. 128 mm	Abutment diameter housing
D_b	max. 133 mm	Diameter of housing abutment
ra	max. 2 mm	Radius of fillet
r _b	max.1 mm	Radius of fillet

Calculation data

Basic dynamic load rating	С	108 kN
Basic static load rating	C_0	80 kN
Fatigue load limit	P _u	3.35 kN
Reference speed		6 000 r/min



Limiting speed			5 600 r/min
Minimum axial load factor	Α		0.112
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)		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			2.15 kg



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