



Overview

7319 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	3.74 in
Outside diameter	7.874 in
Width	1.772 in

Performance

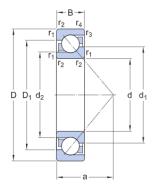
Basic dynamic load rating	37 768 lbf
Basic static load rating	33 721 lbf
Limiting speed	3 800 r/min
Reference speed	4 000 r/min

Properties

Axial internal clearance	Not applicable
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

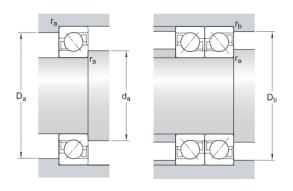


Technical Specification



Dimensions

Bore diameter	3.74 in	d
Outside diameter	7.874 in	D
Width	1.772 in	В
Shoulder diameter of inner ring (large side face)	≈ 5.362 in	d_1
Shoulder diameter of inner ring (small side face)	≈ 4.524 in	d ₂
Shoulder diameter of outer ring (large side face)	≈ 6.348 in	D_1
Distance side face to pressure point	3.307 in	a
Chamfer dimension	min. 0.118 in	r _{1,2}
Chamfer dimension	min. 0.043	r _{3,4}



Abutment dimensions

d _a min. 4.291 in	Diameter of shaft abutment
D _a max. 7.323 in	Abutment diameter housing
D _b max. 7.598 in	Diameter of housing abutment
r _a max. 0.098 in	Radius of fillet
r _b max. 0.039 in	Radius of fillet

Calculation data

Basic dynamic load rating	С	37 768 lbf
Basic static load rating	C_0	33 721 lbf
Fatigue load limit	$P_{\rm u}$	1 169 lbf
Reference speed		4 000 r/min



Limiting speed			3 800 r/min
Minimum axial load factor	А		0.406
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			13.338 lb



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