

Overview

7315 BEP



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	75 mm
Outside diameter	160 mm
Width	37 mm
Contact angle	40 °

Performance

Basic dynamic load rating	125 kN
Basic static load rating	98 kN
Reference speed	5 300 r/min
Limiting speed	5 000 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	Non-metallic
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	Not applicable
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without



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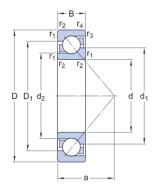
None

Relubrication feature

Without



Technical Specification



Dimensions

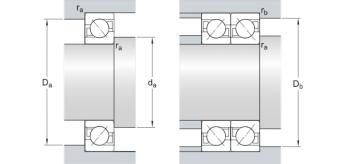
d	75 mm	Bore diameter
D	160 mm	Outside diameter
В	37 mm	Width
d_1	≈ 108.25 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 91.13 mm	Shoulder diameter of inner ring (small side face)
D_1	≈ 128.9 mm	Shoulder diameter of outer ring (large side face)
а	68 mm	Distance side face to pressure point
r _{1,2}	min. 2.1 mm	Chamfer dimension
r _{3,4}	min. 1.1 mm	Chamfer dimension

Abutment dimensions



Calculation data

Basic dynamic load rating	С	125 kN
Basic static load rating	C ₀	98 kN
Fatigue load limit	P _u	3.8 kN
Reference speed		5 300 r/min





Limiting speed		5 000 r/min
Minimum axial load factor	А	0.171
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)	Х	0.35
Calculation factor (single, tandem)	Υ 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)	Х	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

SS

3.2 kg



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