

Overview

## 7238 BCBM

## 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	7.48 in
Outside diameter	13.386 in
Width	2.165 in

#### Performance

Basic dynamic load rating	69 016 lbf
Basic static load rating	91 048 lbf
Limiting speed	2 600 r/min
Reference speed	2 200 r/min

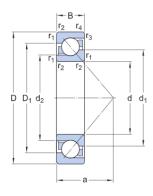
#### Properties

Axial internal clearance	Not applicable
Cage	Machined metal
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

d	7.48 in	Bore diameter
D	13.386 in	Outside diameter
В	2.165 in	Width
d <sub>1</sub>	≈ 9.858 in	Shoulder diameter of inner ring (large side face)
d <sub>2</sub>	≈ 8.823 in	Shoulder diameter of inner ring (small side face)
D <sub>1</sub>	≈ 11.236 in	Shoulder diameter of outer ring (large side face)
а	5.472 in	Distance side face to pressure point
r <sub>1,2</sub>	min. 0.157 in	Chamfer dimension
r <sub>3,4</sub>	min. 0.059 in	Chamfer dimension

#### Abutment dimensions



#### Calculation data

Da

Basic dynamic load rating	С	69 016 lbf
Basic static load rating	C <sub>0</sub>	91 048 lbf
Fatigue load limit	Pu	2 338 lbf
Reference speed		2 200 r/min

D<sub>b</sub>



Limiting speed		2 600 r/min
Minimum axial load factor	А	2.63
Minimum radial load factor	k <sub>r</sub>	0.08
Limiting value	е	1.14

#### Single bearing or bearing pair arranged in tandem

Calculation factor (single, tandem)	Х	0.35
Calculation factor (single, tandem)	Y <sub>0</sub>	0.26
Calculation factor (single, tandem)	Y <sub>2</sub>	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 <sub>0</sub>	0.52
Calculation factor (back-to-back, face-to-face)	Y <sub>1</sub>	0.55
Calculation factor (back-to-back, face-to-face)	Y <sub>2</sub>	0.93

#### Mass

Mass	
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48.502 lb



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