



Image may differ from product. See technical specification for details.

## 7312 ACCBM

### Single row angular contact ball bearing with 25° contact angle

These single row angular contact ball bearings, with 25° contact angle, accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They have Normal axial internal clearance and are suitable for universal matching, where two bearings can be arranged back-to-back or face-to-face. They have a ball-centred brass cage. They can operate at 20% higher speeds than equivalent bearings with 40° contact angle.

- 25° contact angle
- Brass cage
- Suitable for universal matching
- Can operate at very high speeds
- Accommodate relatively high radial loads and large unilateral axial loads

# Overview

## Dimensions

Bore diameter	60 mm
Outside diameter	130 mm
Width	31 mm
Contact angle	25 °

## Performance

Basic dynamic load rating	116 kN
Basic static load rating	85 kN
Reference speed	7 000 r/min
Limiting speed	10 000 r/min
SKF performance class	SKF Explorer

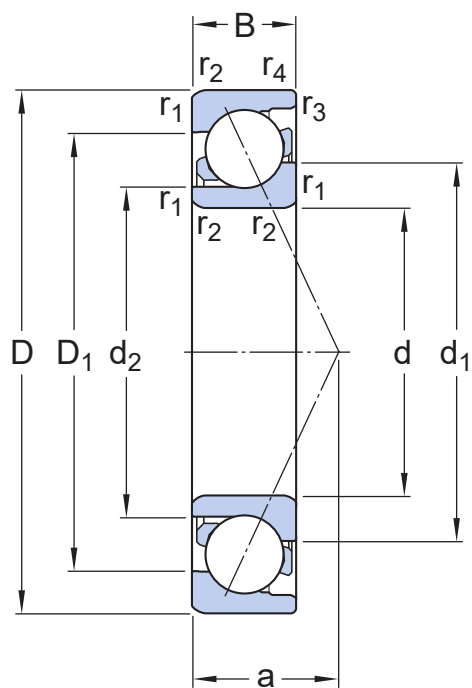
## Properties

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	Machined brass
Matched arrangement	No
Universal matching bearing	Yes
Axial internal clearance	Not applicable
Matched condition (axial clearance/ preload)	Axial clearance CB
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

## Logistics

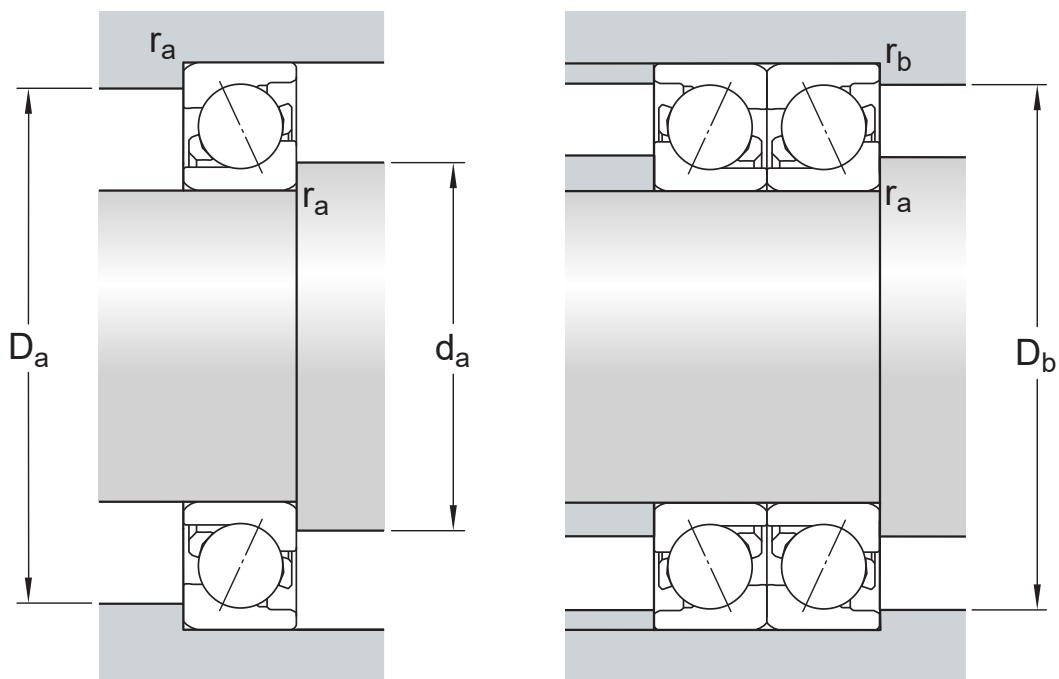
Product net weight	1.88 kg
eClass code	23-05-08-03
UNSPSC code	31171531

# Technical specification



## Dimensions

d	60 mm	Bore diameter
D	130 mm	Outside diameter
B	31 mm	Width
d <sub>1</sub>	≈ 87.14 mm	Shoulder diameter of inner ring (large side face)
d <sub>2</sub>	≈ 72.6 mm	Shoulder diameter of inner ring (small side face)
D <sub>1</sub>	≈ 104.26 mm	Shoulder diameter of outer ring (large side face)
a	37 mm	Distance side face to pressure point
r <sub>1,2</sub>	min. 2.1 mm	Chamfer dimension
r <sub>3,4</sub>	min. 1.1 mm	Chamfer dimension



## Abutment dimensions

$d_a$	min. 72 mm	Diameter of shaft abutment
$D_a$	max. 118 mm	Abutment diameter housing
$D_b$	max. 123 mm	Diameter of housing abutment
$r_a$	max. 2 mm	Radius of fillet
$r_b$	max. 1 mm	Radius of fillet

## Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	116 kN
Basic static load rating	$C_0$	85 kN
Fatigue load limit	$P_U$	3.6 kN
Reference speed		7 000 r/min
Limiting speed		10 000 r/min
Minimum axial load factor	A	0.0345
Minimum radial load factor	$k_r$	0.1
Limiting value	e	0.68

## SINGLE BEARING OR BEARING PAIR ARRANGED IN TANDEM

Calculation factor (single, tandem)	X	0.41
Calculation factor (single, tandem)	$Y_0$	0.38
Calculation factor (single, tandem)	$Y_2$	0.87

## BEARING PAIR ARRANGED BACK-TO-BACK OR FACE-TO-FACE

Calculation factor (back-to-back, face-to-face)	X	0.67
Calculation factor (back-to-back, face-to-face)	$Y_0$	0.76
Calculation factor (back-to-back, face-to-face)	$Y_1$	0.92
Calculation factor (back-to-back, face-to-face)	$Y_2$	1.41

## Tolerances and clearances

### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Internal clearance: CA+CB+CC, G
- Preload: GA+GB+GC

## BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

# More Information

<div> <b>Product details</b></div> <div><div>Designs and variants</div><div>General bearing specifications</div><div>Loads</div><div>Temperature limits</div><div>Permissible speed</div><div>Design considerations</div><div>Designation system</div></div>	<div> <b>Engineering information</b></div> <div><div>Principles of rolling bearing selection</div><div>General bearing knowledge</div><div>Bearing selection process</div><div>Bearing interfaces</div><div>Seat tolerances for standard conditions</div><div>Selecting internal clearance or preload</div><div>Lubrication</div><div>Sealing, mounting and dismounting</div><div>Bearing failure and how to prevent it</div></div>	<div> <b>Tools</b></div> <div><div>SKF Product select</div><div>SimPro Quick</div><div>Bearing Frequency Calculator</div><div>LubeSelect for SKF greases</div><div>Heater selection tool</div><div>SKF mounting and dismounting instructions</div></div>
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