



3207 A

Double row angular contact ball bearing

Double row angular contact ball bearings correspond, in their design and operation, to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. They can operate at high speeds and are more suitable than deep groove ball bearings for supporting large axial forces in both directions.

- High-speed capability
- Accommodate relatively high radial loads, high axial loads in both directions and tilting moments
- Suitable where a stiff bearing arrangement is required
- Require less axial space than equivalent pair of single row angular contact ball bearings

Overview

Dimensions

Bore diameter	35 mm
Contact angle	30°
Outside diameter	72 mm
Width	27 mm

Performance

Basic dynamic load rating	40.5 kN
Basic static load rating	30 kN
Limiting speed	9 000 r/min
Reference speed	9 000 r/min
SKF performance class	SKF Explorer

Properties

Arrangement of contact angle (double-row bearing)	Back-to-back (0)
Axial internal clearance	CN
Cage	Sheet 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	2

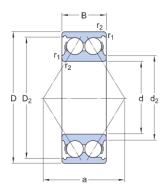


Relubrication feature	Without
Ring type	One-piece inner and outer rings
Sealing	Without
Universal matching bearing	No



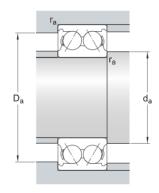
Technical Specification

SKF performance class SKF Explorer



Dimensions

d	35 mm	Bore diameter
D	72 mm	Outside diameter
В	27 mm	Width
d_2	≈ 45.4 mm	Recess diameter inner ring shoulder
D_2	≈ 63.85 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 1.1 mm	Chamfer dimension inner ring
a	42 mm	Distance pressure point(s)



Abutment dimensions

d _a min. 42 mm	Abutment diameter shaft
D _a max. 65 mm	Abutment diameter housing
r _a max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	С	40.5 kN
Basic static load rating	C_0	30 kN
Fatigue load limit	P_{u}	1.27 kN
Reference speed		9 000 r/min



Limiting speed		9 000 r/min
Calculation factor	k _r	0.06
Limiting value	е	0.8
Calculation factor	X	0.63
Calculation factor	Y_0	0.66
Calculation factor	Y_1	0.78
Calculation factor	Y ₂	1.24

Mass

Mass bearing	0.44 kg
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