



3322 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	110 mm
Contact angle	30 °
Outside diameter	240 mm
Width	92.1 mm

Performance

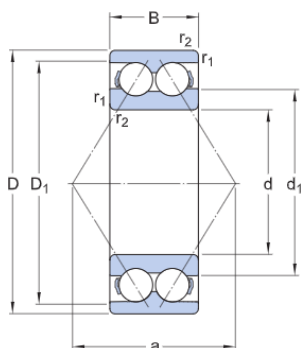
Basic dynamic load rating	291 kN
Basic static load rating	305 kN
Limiting speed	2 600 r/min
Reference speed	3 000 r/min

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

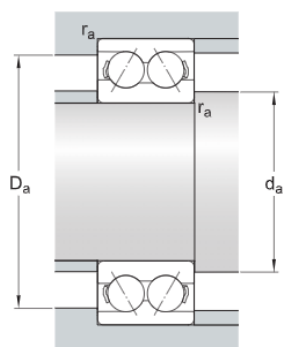
Ring type	One-piece inner and outer rings
Sealing	Without
Universal matching bearing	No

Technical Specification



Dimensions

d	110 mm	Bore diameter
D	240 mm	Outside diameter
B	92.1 mm	Width
d ₁	≈ 152.99 mm	Shoulder diameter inner ring
D ₁	≈ 200.01 mm	Shoulder diameter outer ring
r _{1,2}	min. 3 mm	Chamfer dimension inner ring
a	142 mm	Distance pressure point(s)



Abutment dimensions

d _a	min. 124 mm	Abutment diameter shaft
D _a	max. 226 mm	Abutment diameter housing
r _a	max. 2.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	291 kN
Basic static load rating	C ₀	305 kN
Fatigue load limit	P _u	9.8 kN
Reference speed		3 000 r/min
Limiting speed		2 600 r/min
Calculation factor	k _r	0.07
Limiting value	e	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		19 kg
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