



1320 Self-aligning ball bearings

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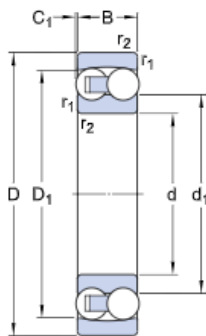
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

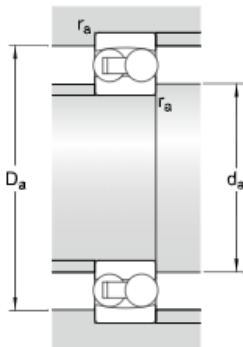


DIMENSIONS

d	100 mm	Bore diameter
D	215 mm	Outside diameter
B	47 mm	Width
d ₁	≈ 136 mm	Shoulder diameter inner ring
D ₁	≈ 181.9 mm	Shoulder diameter outer ring
C1	2.469 mm	Protrusion of the balls from bearing side faces
r _{1,2}	min. 3 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a min.	114 mm	Abutment diameter shaft
D _i max.	201 mm	Abutment diameter housing
r _a max.	3 mm	Fillet radius



CALCULATION DATA

C	143 kN	Basic dynamic load rating
C ₀	57 kN	Basic static load rating
P _u	2.36 kN	Fatigue load limit
	6 000 r/min	Reference speed
	4 000 r/min	Limiting speed
α	3 °	Permissible angular misalignment
k _r	0.045	Calculation factor
e	0.24	Calculation factor
Y ₀	2.8	Calculation factor
Y ₁	2.6	Calculation factor
Y ₂	4.1	Calculation factor

MASS

8.3 kg	Mass bearing
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