



1224 M Self-aligning ball bearings

Self-aligning ball bearings

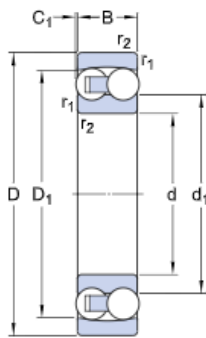
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

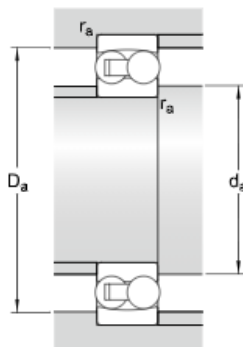


DIMENSIONS

d	120 mm	Bore diameter
D	215 mm	Outside diameter
B	42 mm	Width
d ₁	≈ 149 mm	Shoulder diameter inner ring
D ₁	≈ 187.2 mm	Shoulder diameter outer ring
C1	1.271 mm	Protrusion of the balls from bearing side faces
r _{1,2}	min. 2.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a min.	132 mm	Abutment diameter shaft
D _i max.	203 mm	Abutment diameter housing
r _a max.	2 mm	Fillet radius



CALCULATION DATA

C	119 kN	Basic dynamic load rating
C ₀	53 kN	Basic static load rating
P _u	2.12 kN	Fatigue load limit
	6 300 r/min	Reference speed
	4 000 r/min	Limiting speed
α	2.5 °	Permissible angular misalignment
k _r	0.04	Calculation factor
e	0.19	Calculation factor
Y ₀	3.6	Calculation factor
Y ₁	3.3	Calculation factor
Y ₂	5.1	Calculation factor

MASS

	6.75 kg	Mass bearing
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