



13944 Self-aligning ball bearings

Self-aligning ball bearings

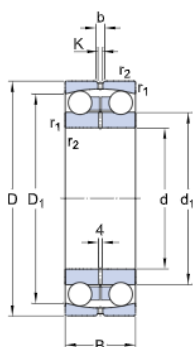
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

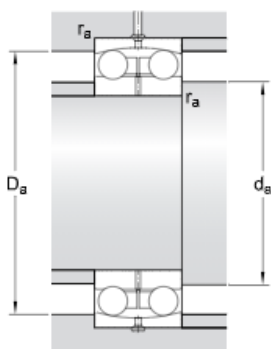


DIMENSIONS

d	220 mm	Bore diameter
D	300 mm	Outside diameter
B	60 mm	Width
d ₁	≈ 248.9 mm	Shoulder diameter inner ring
D ₁	≈ 277.8 mm	Shoulder diameter outer ring
b	8.3 mm	Width annular lubrication groove at outer ring
K	4.5 mm	Diameter lubrication hole (outer ring)
r _{1,2}	min. 2.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 231 mm	Abutment diameter shaft
D _i	max. 289 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius



CALCULATION DATA

C	60.5 kN	Basic dynamic load rating
C ₀	29 kN	Basic static load rating
P _u	0.965 kN	Fatigue load limit
	3 800 r/min	Reference speed
	2 400 r/min	Limiting speed
α	3 °	Permissible angular misalignment
k _r	0.015	Calculation factor
e	0.18	Calculation factor
Y ₀	3.6	Calculation factor
Y ₁	3.5	Calculation factor
Y ₂	5.4	Calculation factor

MASS

11 kg	Mass bearing
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