



2205 EKTN9 Self-aligning ball bearings

Self-aligning ball bearings

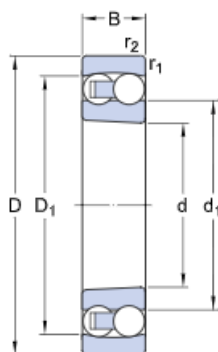
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

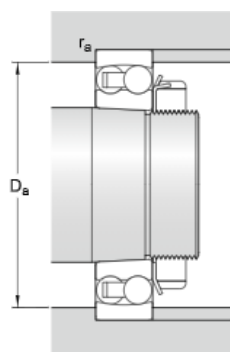


DIMENSIONS

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	18 mm	Width
d ₁	≈ 32.28 mm	Shoulder diameter inner ring
D ₁	≈ 45.1 mm	Shoulder diameter outer ring
r _{1,2}	min. 1 mm	Chamfer dimension
Tapered bore, taper 1:12		

ABUTMENT DIMENSIONS

D _i max. 46.4 mm	Abutment diameter housing
r _a max. 1 mm	Fillet radius



CALCULATION DATA

C	16.8 kN	Basic dynamic load rating
C ₀	4.4 kN	Basic static load rating
P _u	0.228 kN	Fatigue load limit
	26 000 r/min	Reference speed
	18 000 r/min	Limiting speed
α	2.5 °	Permissible angular misalignment
k _r	0.045	Calculation factor
e	0.35	Calculation factor
Y ₀	1.8	Calculation factor
Y ₁	1.8	Calculation factor
Y ₂	2.8	Calculation factor

MASS

0.16 kg	Mass bearing
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