



1307 EKTN9 Self-aligning ball bearings

Self-aligning ball bearings

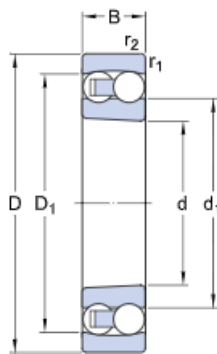
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

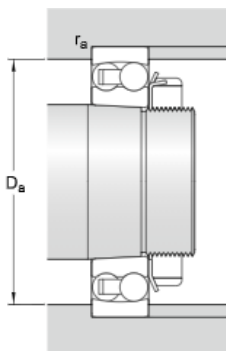


DIMENSIONS

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d ₁	≈ 51.55 mm	Shoulder diameter inner ring
D ₁	≈ 67.5 mm	Shoulder diameter outer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension
Tapered bore, taper 1:12		

ABUTMENT DIMENSIONS

D _ç max. 71 mm	Abutment diameter housing
r _a max. 1.5 mm	Fillet radius



CALCULATION DATA

C	26.5 kN	Basic dynamic load rating
C ₀	8.5 kN	Basic static load rating
P _u	0.43 kN	Fatigue load limit
	16 000 r/min	Reference speed
	11 000 r/min	Limiting speed
α	3 °	Permissible angular misalignment
k _r	0.04	Calculation factor
e	0.25	Calculation factor
Y ₀	2.5	Calculation factor
Y ₁	2.5	Calculation factor
Y ₂	3.9	Calculation factor

MASS

0.51 kg	Mass bearing
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