



1312 EKTN9 Self-aligning ball bearings

Self-aligning ball bearings

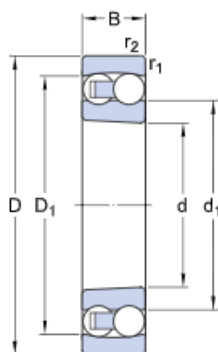
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

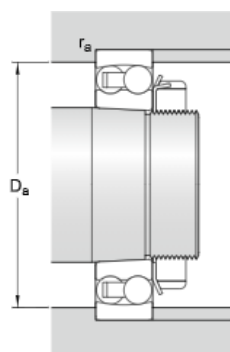


DIMENSIONS

d	60 mm	Bore diameter
D	130 mm	Outside diameter
B	31 mm	Width
d ₁	≈ 91.61 mm	Shoulder diameter inner ring
D ₁	≈ 116.7 mm	Shoulder diameter outer ring
r _{1,2}	min. 2.1 mm	Chamfer dimension
Tapered bore, taper 1:12		

ABUTMENT DIMENSIONS

D _ç	max. 118 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius



CALCULATION DATA

C	58.5 kN	Basic dynamic load rating
C ₀	22 kN	Basic static load rating
P _u	1.12 kN	Fatigue load limit
	9 000 r/min	Reference speed
	6 300 r/min	Limiting speed
α	3 °	Permissible angular misalignment
k _r	0.04	Calculation factor
e	0.22	Calculation factor
Y ₀	2.8	Calculation factor
Y ₁	2.9	Calculation factor
Y ₂	4.5	Calculation factor

MASS

1.9 kg	Mass bearing
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