



1310 ETN9 Self-aligning ball bearings

- Popular item

Self-aligning ball bearings

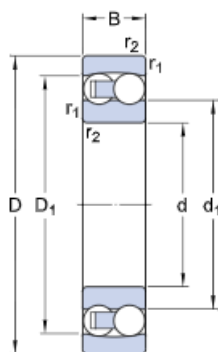
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

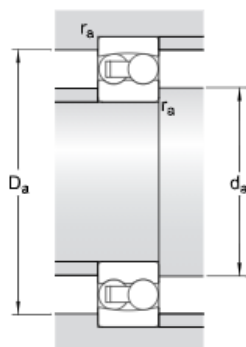


DIMENSIONS

d	50 mm	Bore diameter
D	110 mm	Outside diameter
B	27 mm	Width
d ₁	≈ 70.3 mm	Shoulder diameter inner ring
D ₁	≈ 92.6 mm	Shoulder diameter outer ring
r _{1,2}	min. 2 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 61 mm	Abutment diameter shaft
D _i	max. 99 mm	Abutment diameter housing
r _a	max. 2 mm	Fillet radius



CALCULATION DATA

C	43.6 kN	Basic dynamic load rating
C ₀	14 kN	Basic static load rating
P _u	0.72 kN	Fatigue load limit
	12 000 r/min	Reference speed
	8 000 r/min	Limiting speed
α	3 °	Permissible angular misalignment
k _r	0.04	Calculation factor
e	0.24	Calculation factor
Y ₀	2.8	Calculation factor
Y ₁	2.6	Calculation factor
Y ₂	4.1	Calculation factor

MASS

1.2 kg	Mass bearing
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