



1308 EM Self-aligning ball bearings

Self-aligning ball bearings

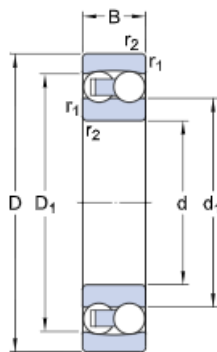
Bearing data

[Tolerances](#),
Normal, JS7,
[Radial internal clearance](#),
table

Bearing interfaceS

[Seat tolerances for standard conditions](#),
[Tolerances and resultant fits](#)

Technical specification

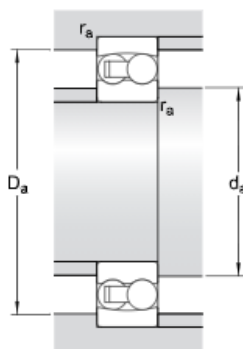


DIMENSIONS

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	23 mm	Width
d ₁	≈ 61.47 mm	Shoulder diameter inner ring
D ₁	≈ 80.2 mm	Shoulder diameter outer ring
r _{1,2}	min. 1.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 49 mm	Abutment diameter shaft
D _i	max. 81 mm	Abutment diameter housing
r _a	max. 1.1 mm	Fillet radius



CALCULATION DATA

C	33.8 kN	Basic dynamic load rating
C ₀	11.2 kN	Basic static load rating
P _u	0.57 kN	Fatigue load limit
	14 000 r/min	Reference speed
	9 500 r/min	Limiting speed
α	3 °	Permissible angular misalignment
k _r	0.04	Calculation factor
e	0.23	Calculation factor
Y ₀	2.8	Calculation factor
Y ₁	2.7	Calculation factor
Y ₂	4.2	Calculation factor

MASS

0.74 kg	Mass bearing
---------	--------------