



2205 E-2RS1TN9 Self-aligning ball bearings

- Popular item

Self-aligning ball bearings

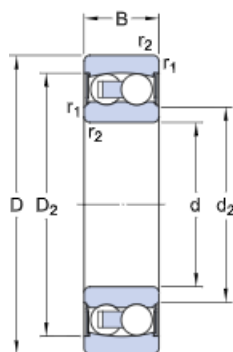
Bearing data

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

Bearing interfaceS

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

Technical specification

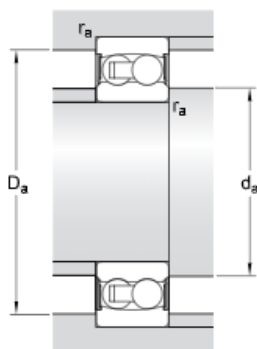


DIMENSIONS

d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	18 mm	Width
d ₂	≈ 31 mm	Recess diameter inner ring
D ₂	≈ 46.21 mm	Recess diameter outer ring
r _{1,2}	min. 1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a min.	30.6 mm	Abutment diameter shaft
d _a max.	31 mm	Abutment diameter shaft
D _i max.	46.4 mm	Abutment diameter housing
r _a max.	1 mm	Fillet radius



CALCULATION DATA

C	14.3 kN	Basic dynamic load rating
C ₀	4 kN	Basic static load rating
P _u	0.204 kN	Fatigue load limit
	9 000 r/min	Limiting speed
α	1.5 °	Permissible angular misalignment
k _r	0.045	Calculation factor
e	0.28	Calculation factor
Y ₀	2.5	Calculation factor
Y ₁	2.2	Calculation factor
Y ₂	3.5	Calculation factor

MASS

	0.16 kg	Mass bearing
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