



2209 E-2RS1KTN9 Self-aligning ball bearings

- Popular item

Self-aligning ball bearings

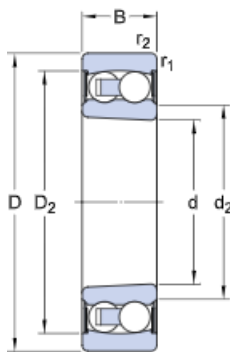
Bearing data

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

Bearing interfaceS

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

Technical specification

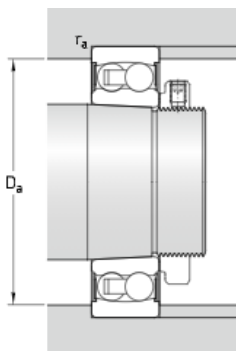


DIMENSIONS

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d ₂	≈ 52.9 mm	Recess diameter inner ring
D ₂	≈ 75.25 mm	Recess diameter outer ring
r _{1,2}	min. 1.1 mm	Chamfer dimension
Tapered bore, taper 1:12		

ABUTMENT DIMENSIONS

D _ç max. 78 mm	Abutment diameter housing
r _a max. 1.1 mm	Fillet radius



CALCULATION DATA

C	22.9 kN	Basic dynamic load rating
C ₀	7.8 kN	Basic static load rating
P _u	0.4 kN	Fatigue load limit
	5 300 r/min	Limiting speed
α	1.5 °	Permissible angular misalignment
k _r	0.045	Calculation factor
e	0.21	Calculation factor
Y ₀	3.2	Calculation factor
Y ₁	3	Calculation factor
Y ₂	4.6	Calculation factor

MASS

	0.53 kg	Mass bearing
--	---------	--------------