



2209 ETN9 Self-aligning ball bearings

- Popular item

Self-aligning ball bearings

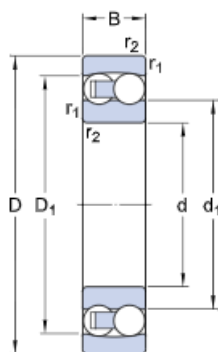
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

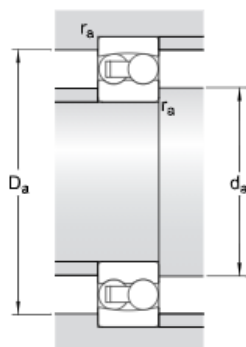


DIMENSIONS

d	45 mm	Bore diameter
D	85 mm	Outside diameter
B	23 mm	Width
d_1	≈ 55.32 mm	Shoulder diameter inner ring
D_1	≈ 73.2 mm	Shoulder diameter outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_a	min. 52 mm	Abutment diameter shaft
D_i	max. 78 mm	Abutment diameter housing
r_a	max. 1.1 mm	Fillet radius



CALCULATION DATA

C	32.5 kN	Basic dynamic load rating
C ₀	10.6 kN	Basic static load rating
P _u	0.54 kN	Fatigue load limit
	15 000 r/min	Reference speed
	10 000 r/min	Limiting speed
α	2.5 °	Permissible angular misalignment
k _r	0.045	Calculation factor
e	0.26	Calculation factor
Y ₀	2.5	Calculation factor
Y ₁	2.4	Calculation factor
Y ₂	3.7	Calculation factor

MASS

	0.55 kg	Mass bearing
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