



2207 ETN9 Self-aligning ball bearings

- Popular item

Self-aligning ball bearings

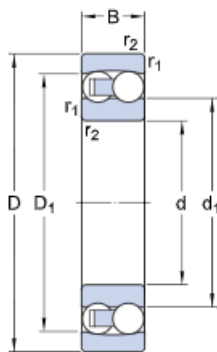
Bearing data

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

Bearing interfaceS

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

Technical specification

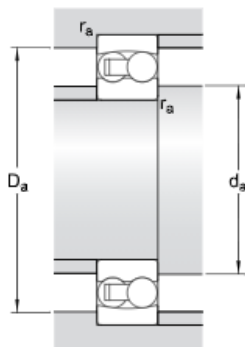


DIMENSIONS

d	35 mm	Bore diameter
D	72 mm	Outside diameter
B	23 mm	Width
d_1	≈ 45.3 mm	Shoulder diameter inner ring
D_1	≈ 62.9 mm	Shoulder diameter outer ring
$r_{1,2}$	min. 1.1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d_a	min. 42 mm	Abutment diameter shaft
D_c	max. 65 mm	Abutment diameter housing
r_a	max. 1.1 mm	Fillet radius



CALCULATION DATA

C	30.2 kN	Basic dynamic load rating
C ₀	8.8 kN	Basic static load rating
P _u	0.455 kN	Fatigue load limit
	18 000 r/min	Reference speed
	12 000 r/min	Limiting speed
α	2.5 °	Permissible angular misalignment
k _r	0.045	Calculation factor
e	0.31	Calculation factor
Y ₀	2.2	Calculation factor
Y ₁	2	Calculation factor
Y ₂	3.1	Calculation factor

MASS

	0.4 kg	Mass bearing
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