



1303 EM Self-aligning ball bearings

Self-aligning ball bearings

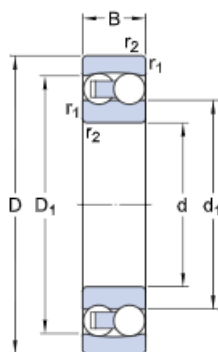
Bearing data

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

Bearing interfaceS

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

Technical specification

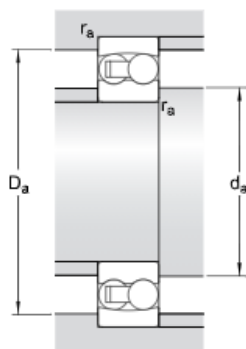


DIMENSIONS

d	17 mm	Bore diameter
D	47 mm	Outside diameter
B	14 mm	Width
d ₁	≈ 28.88 mm	Shoulder diameter inner ring
D ₁	≈ 40 mm	Shoulder diameter outer ring
r _{1,2}	min. 1 mm	Chamfer dimension

ABUTMENT DIMENSIONS

d _a	min. 22.6 mm	Abutment diameter shaft
D _i	max. 41.4 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



CALCULATION DATA

C	12.7 kN	Basic dynamic load rating
C ₀	3.4 kN	Basic static load rating
P _u	0.176 kN	Fatigue load limit
	28 000 r/min	Reference speed
	20 000 r/min	Limiting speed
α	3 °	Permissible angular misalignment
k _r	0.04	Calculation factor
e	0.3	Calculation factor
Y ₀	2.2	Calculation factor
Y ₁	2.1	Calculation factor
Y ₂	3.3	Calculation factor

MASS

	0.13 kg	Mass bearing
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