



1301 EM

Self-aligning ball bearings

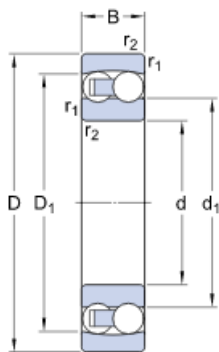
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits
table

Technical specification

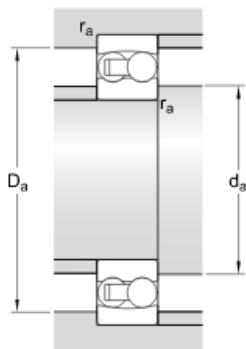


DIMENSIONS

d	12 mm
D	37 mm
B	12 mm
d ₁	≈ 20.2 mm
D ₁	≈ 29.5 mm
r _{1,2}	min. 1 mm

ABUTMENT DIMENSIONS

d _a	min. 17.6 mm
D _a	max. 31.4 mm
r _a	max. 1 mm



CALCULATION DATA

Basic dynamic load rating	C	9.36 kN
Basic static load rating	C ₀	2.16 kN
Fatigue load limit	P _u	0.12 kN
Reference speed		40000 r/min
Limiting speed		28000 r/min
Permissible angular misalignment	α	3 °
Calculation factor	k _r	0.04
Calculation factor	e	0.35
Calculation factor	Y ₀	1.8
Calculation factor	Y ₁	1.8
Calculation factor	Y ₂	2.8

MASS

Mass bearing	0.073 kg
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More information

<p>Product details</p> <hr/> <p>Designs and variants</p> <hr/> <p>Bearing data</p> <hr/> <p>Loads</p> <hr/> <p>Temperature limits</p> <hr/> <p>Permissible speed</p> <hr/> <p>Design considerations</p> <hr/> <p>Mounting</p> <hr/> <p>Designation system</p> <hr/>	<p>Engineering information</p> <hr/> <p>Principles of rolling bearing selection</p> <hr/> <p>General bearing knowledge</p> <hr/> <p>Bearing selection process</p> <hr/> <p>Bearing interfaces</p> <hr/> <p>Seat tolerances for standard conditions</p> <hr/> <p>Selecting internal clearance</p> <hr/> <p>Lubrication</p> <hr/> <p>Sealing, mounting and dismantling</p> <hr/> <p>Bearing failure and how to prevent it</p> <hr/>	<p>Tools</p> <hr/> <p>Bearing Select</p> <hr/> <p>SimPro Quick</p> <hr/> <p>Engineering Calculator</p> <hr/> <p>LubeSelect for SKF greases</p> <hr/> <p>Heater selection tool</p> <hr/> <p>Drive-up Method Program</p> <hr/> <p>Oil Injection Method Program</p> <hr/> <p>Tool and Accessory Selector for sleeves and shafts</p> <hr/> <p>Housing Select</p> <hr/> <p>Rolling bearings mounting and dismantling instructions</p> <hr/>
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