



1318

Self-aligning ball bearings

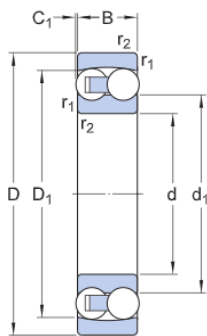
Bearing data

Tolerances,
Normal, JS7,
Radial internal clearance,
table

Bearing interfaceS

Seat tolerances for standard
conditions,
Tolerances and resultant fits

Technical specification

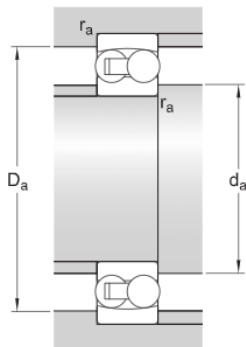


DIMENSIONS

d	90 mm	Bore diameter
D	190 mm	Outside diameter
B	43 mm	Width
d1	≈122.8 mm	Shoulder diameter inner ring
D1	≈162.1 mm	Shoulder diameter outer ring
C1	1 mm	Protrusion of the balls from bearing side faces
r1,2	min.3 mm	Chamfer dimension

ABUTMENT DIMENSIONS

da	min.104 mm	Abutment diameter shaft
Da	max.176 mm	Abutment diameter housing
ra	max.3 mm	Fillet radius



CALCULATION DATA

Basic dynamic load rating	C	117 kN
Basic static load rating	C ₀	44 kN
Fatigue load limit	P _u	1.93 kN
Reference speed		6 700 r/min
Limiting speed		4 500 r/min
Permissible angular misalignment	α	3 °
Calculation factor	k _r	0.045
Calculation factor	e	0.22
Calculation factor	Y ₀	2.8
Calculation factor	Y ₁	2.9
Calculation factor	Y ₂	4.5

MASS

Mass bearing		5.8 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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