6318/C3VL0241

Popular item

INSOCOAT deep groove ball bearings, single row

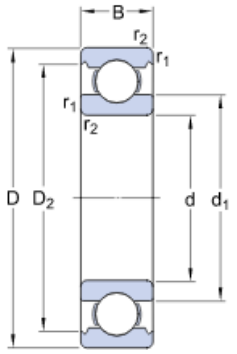
Bearing data

Tolerances,
Normal, P6, P5,
Radial internal clearance,
table

Bearing interfaces

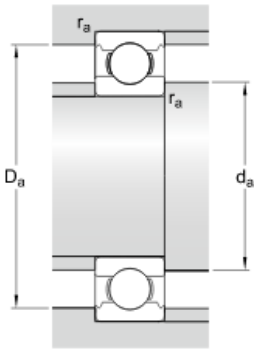
Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	90 mm
D	190 mm
B	43 mm
d_1	≈ 121.15 mm
D_2	≈ 166 mm
$r_{1,2}$	min. 3 mm



ABUTMENT DIMENSIONS

d_a	min. 104 mm
D_a	min. 171 mm
D_a	max. 176 mm
r_a	max. 2.5 mm

CALCULATION DATA

Basic dynamic load rating	C	151 kN
Basic static load rating	C_0	108 kN
Fatigue load limit	P_u	3.8 kN
Reference speed		7500 r/min
Limiting speed		4800 r/min
Calculation factor	k_r	0.03
Calculation factor	f_0	13.3

MASS

Mass bearing	4.9 kg

More information

Product details

- Designs and variants
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- Design considerations
- Mounting
- Designation system

Engineering information

- Principles of rolling bearing selection
- General bearing knowledge
- Bearing selection process
- Bearing interfaces
- Seat tolerances for standard conditions
- Selecting internal clearance
- Lubrication
- External sealing, mounting and dismounting
- Bearing failure and how to prevent it

Tools

- Bearing Select
- Engineering Calculator
- SimPro Quick
- LubeSelect for SKF greases
- Heater selection tool
- Rolling bearings mounting and dismounting instructions

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