6003-2RSLTN9/HC5C3WT

Popular item

Hybrid deep groove ball bearings, single row

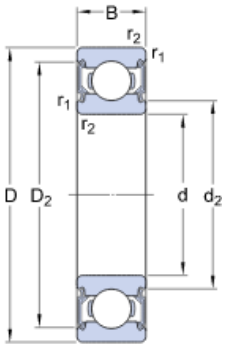
Bearing data

Tolerances,
Normal,
Radial internal clearance,
table

Bearing interfaces

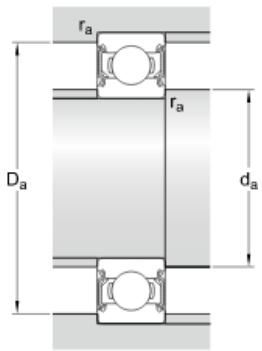
Seat tolerances for standard conditions,
Tolerances and resultant fit

Technical specification



DIMENSIONS

d	17 mm
D	35 mm
B	10 mm
d_2	≈ 20.7 mm
D_2	≈ 31.4 mm
$r_{1,2}$	min. 0.3 mm



ABUTMENT DIMENSIONS

d_a	min. 19 mm
d_a	max. 20.5 mm
D_a	max. 33 mm
r_a	max. 0.3 mm

CALCULATION DATA

Basic dynamic load rating	C	6.05 kN
Basic static load rating	C_0	3.25 kN
Fatigue load limit	P_u	0.1 kN
Reference speed		50000 r/min
Limiting speed		22000 r/min
Calculation factor	k_r	0.025
Calculation factor	f_0	14.4

MASS

Mass bearing	0.038 kg

Product details

- Hybrid deep groove ball bearings
- Hybrid cylindrical roller bearings
- Selecting bearing size
- Bearing data
- Loads
- Temperature limits
- Permissible speed
- 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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