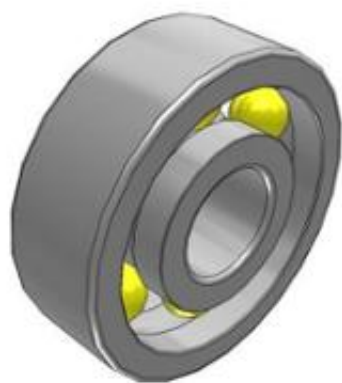




W 603 R

Deep groove ball bearings

Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

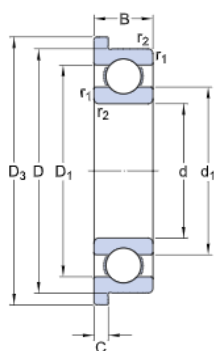
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

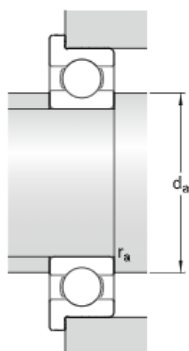


DIMENSIONS

d	3 mm
D	9 mm
B	3 mm
d ₁	≈ 4.86 mm
D ₁	≈ 7.2 mm
D ₃	10.5 mm
C	0.7 mm
r _{1,2}	min. 0.15 mm

ABUTMENT DIMENSIONS

d _a	min. 4.2 mm
r _a	max. 0.15 mm



CALCULATION DATA

Basic dynamic load rating	C	0.325 kN
Basic static load rating	C_0	0.095 kN
Fatigue load limit	P_u	0.004 kN
Reference speed		140000 r/min
Limiting speed		90000 r/min
Calculation factor	k_r	0.03
Calculation factor	f_0	6.4

MASS

Mass bearing	0.001 kg
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More information

Product details

[Single row deep groove ball bearings](#)[Stainless steel deep groove ball bearings](#)[Single row deep groove ball bearings with filling slots](#)[Double row deep groove ball bearings](#)[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](#)[Sealing, mounting and dismounting](#)[Bearing failure and how to prevent it](#)

Tools

[Bearing Select](#)[SimPro Quick](#)[Engineering Calculator](#)[LubeSelect for SKF greases](#)[Heater selection tool](#)[Rolling bearings mounting and dismounting instructions](#)

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