



W 637/8 XR

Deep groove ball bearings

Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

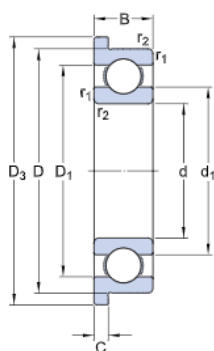
d < 10 mm, Other bearings

Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

Technical specification

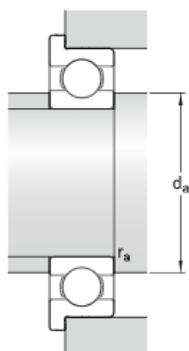


DIMENSIONS

d	0.315 in
D	0.5512 in
B	0.1378 in
d ₁	≈ 0.3882 in
D ₁	≈ 0.4799 in
D ₃	0.6142 in
C	0.0315 in
r _{1,2}	min. 0.0079 in

ABUTMENT DIMENSIONS

d _a	min. 0.378 in
r _a	max. 0.0079 in



CALCULATION DATA

Basic dynamic load rating	C	104 lbf
Basic static load rating	C ₀	43 lbf
Fatigue load limit	P _u	1.8 lbf
Reference speed		95000 r/min
Limiting speed		60000 r/min
Calculation factor	k _r	0.02
Calculation factor	f ₀	7.8

MASS

Mass bearing	0.0044 lbs
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More information

Product details	Engineering information	Tools
Single row deep groove ball bearings	Principles of rolling bearing selection	Bearing Select
Stainless steel deep groove ball bearings	General bearing knowledge	SimPro Quick
Single row deep groove ball bearings with filling slots	Bearing selection process	Engineering Calculator
Double row deep groove ball bearings	Bearing interfaces	LubeSelect for SKF greases
Bearing data	Seat tolerances for standard conditions	Heater selection tool
Loads	Selecting internal clearance	Rolling bearings mounting and dismounting instructions
Temperature limits	Lubrication	
Permissible speed	Sealing, mounting and dismounting	
Designation system	Bearing failure and how to prevent it	

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