

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

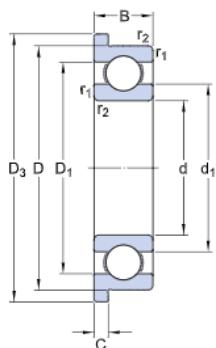
Bearing interfaces

Seat tolerances for standard conditions,

Tolerances and resultant fits

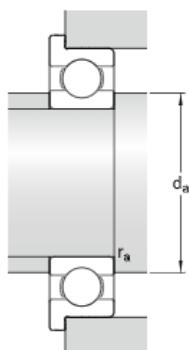
Technical specification

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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