



6211-2RS1/HC5C3WT

Hybrid deep groove ball bearing with seals on both sides

Hybrid single row deep groove ball bearings with seals on both sides have rings made of bearing steel and rolling elements made of bearing grade silicon nitride (Si3N4), which make the bearings electrically insulating. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out. The silicon nitride elements not only provide protection from electric current damage but also, when compared to same-sized bearings with steel rolling elements, provide enhanced bearing performance, extended bearing service life, higher speed capability, high wear-resistance, high bearing stiffness, reduced risk of smearing and false brinelling, and less sensitivity to temperature gradients, making them suitable for use in dificult conditions and contaminated environments.

• Protected against electric current damage

- Integral sealing prolongs bearing service life
- Especially suited for use in difficult conditions and contaminated environments
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	55 mm
Outside diameter	100 mm
Width	21 mm

Performance

Basic dynamic load rating	43.6 kN
Basic static load rating	29 kN
Limiting speed	4 300 r/min

Properties

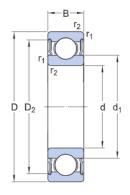
Bore type	Cylindrical	
Cage	Sheet metal	
Coating	Without	
Filling slots	Without	
Locating feature, bearing outer ring	None	
Lubricant	Grease	
Matched arrangement	No	
Material, bearing	Hybrid	
Number of rows	1	
Radial internal clearance	C3	
Relubrication feature	Without	
Sealing	Seal on both sides	



Sealing type Contact

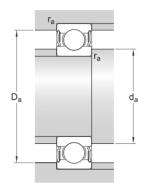


Technical Specification



Dimensions

d	55 mm	Bore diameter
D	100 mm	Outside diameter
В	21 mm	Width
d_1	≈ 69.06 mm	Shoulder diameter inner ring
D_2	≈ 89.4 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d _a min. 64 mm	Abutment diameter shaft
d _a max. 69 mm	Abutment diameter shaft
D _a max. 91 mm	Abutment diameter housing
r _a max. 1.5 mm	Fillet radius

Calculation data

Basic dynamic load rating	С	43.6 kN
Basic static load rating	C_0	29 kN
Fatigue load limit	P_{u}	0.9 kN
Limiting speed		4 300 r/min
Calculation factor	k _r	0.025
Calculation factor	f_{Ω}	14.3



Mass

Mass bearing 0.59 kg



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