

6307-2Z/VA208



Deep groove ball bearing for high temperature applications with shields on both sides

Single row deep groove ball bearings for high temperature applications, with shields on both sides, are designed for challenging operating conditions, with certain variants being capable of performing at temperatures as high as 350 °C (660 °F). They have larger radial internal clearances and use graphite-based lubricants that enable operation at high temperatures. They are lubricated for the life of the bearing and the entire surface of the bearings and shields are manganese phosphate treated, which enhances adhesion of the lubricant to the metal and improves their running-in properties. As with deep groove ball bearings generally, they are particularly versatile, accommodate radial and axial loads in both directions, and are easy to mount.

- Optimized for operation at high temperatures – up to 350 °C (660 °F)
- Easily swapped with grease-lubricated bearings of corresponding ISO dimensions
- Increased reliability, reduced complexity and decreased environmental impact
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	1.378 in
Outside diameter	3.15 in
Width	0.827 in

Performance

Basic dynamic load rating	7 891 lbf
Basic static load rating	4 271 lbf
Limiting speed	70 r/min
Maximum operating temperature	662 °F

Properties

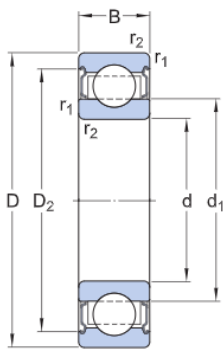
Bore type	Cylindrical
Cage	Non-metallic
Coating	Coated
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	Solid lubricant
Matched arrangement	No
Material, bearing	High temperature steel
Number of rows	1
Radial internal clearance	Multiples of C5

Relubrication feature	Without
Sealing	Shield on both sides
Sealing type	Non-contact

Technical Specification

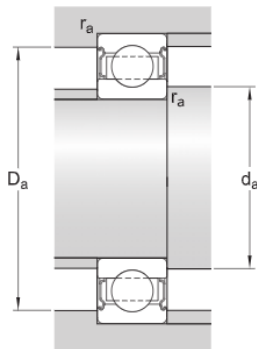
Running in required

No



Dimensions

d	1.378 in	Bore diameter
D	3.15 in	Outside diameter
B	0.827 in	Width
d ₁	≈ 1.951 in	Shoulder diameter inner ring
D ₂	≈ 2.724 in	Recess diameter outer ring shoulder
r _{1,2}	min. 0.059 in	Chamfer dimension



Abutment dimensions

d _a	min. 1.732 in	Abutment diameter shaft
d _a	max. 1.949 in	Abutment diameter shaft
D _a	max. 2.795 in	Abutment diameter housing
r _a	max. 0.059 in	Fillet radius

Calculation data

Basic dynamic load rating	C	7 891 lbf
Basic static load rating	C ₀	4 271 lbf
Limiting speed		70 r/min
Operating temperature	T	max. 662 °F

Mass

Mass bearing

1.047 lb

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