SKF 6307-2Z/VA208

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

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.

Technical specifications

Running in required	No

Dimensions	
Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm
Shoulder diameter inner ring	49.56 mm
Recess diameter outer ring shoulder	69.2 mm
Chamfer dimension	1.5 mm

Abutment dimensions	
Abutment diameter shaft	44 mm
Abutment diameter shaft	49.5 mm
Abutment diameter housing	71 mm
Fillet radius	1.5 mm

Calculation data	
Basic static load rating	19 kN
Limiting speed	70 r/min
Operating temperature	350 °C

Performance	
Basic static load rating	19 kN
Limiting speed	70 r/min
Maximum operating temperature	350 °C

Properties	
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Non-metallic
Matched arrangement	No
Radial internal clearance	Multiples of C5
Material, bearing	High temperature steel
Coating	Coated
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Solid lubricant
Relubrication feature	Without
Indicative carbon footprint for new product	1.6 kg CO₂e

Logistics	
Product net weight	0.449 kg
eClass code	23-05-90-90
UNSPSC code	31171504

SKF drawings