

SKF 6003-2Z/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	17 mm
Outside diameter	35 mm
Width	10 mm
Shoulder diameter inner ring	23 mm
Recess diameter outer ring shoulder	31.2 mm
Chamfer dimension	0.3 mm
Abutment dimensions	
Abutment diameter shaft	19 mm
Abutment diameter shaft	22.9 mm
Abutment diameter housing	33 mm
Fillet radius	0.3 mm
Calculation data	
Basic static load rating	3.25 kN
Limiting speed	170 r/min
Operating temperature	350 °C
Performance	
Basic static load rating	3.25 kN
Limiting speed	170 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	0.14 kg CO ₂ e
Logistics	
Product net weight	0.038 kg
eClass code	23-05-90-90
UNSPSC code	31171504

SKF drawings