



## SKF 6007-2RZTN9/HC5C3WT

Hybrid ceramic deep groove ball bearing with seals on both sides

Hybrid ceramic 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, 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 ceramic rolling 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 difficult conditions and contaminated environments.

### Technical specifications

Dimensions	
Bore diameter	35 mm
Outside diameter	62 mm
Width	14 mm
Shoulder diameter inner ring	43.75 mm
Recess diameter outer ring shoulder	55.61 mm
Chamfer dimension	1 mm

Abutment dimensions	
Abutment diameter shaft	39.6 mm
Abutment diameter shaft	43.7 mm
Abutment diameter housing	57.4 mm
Fillet radius	0.3 mm

Calculation data	
Basic dynamic load rating	15.9 kN
Basic static load rating	10.2 kN
Fatigue load limit	0.32 kN
Reference speed	26000 r/min
Limiting speed	14000 r/min
Calculation factor	0.03
Calculation factor	14.8

Performance	
Basic dynamic load rating	15.9 kN
Basic static load rating	10.2 kN
Reference speed	26000 r/min
Limiting speed	14000 r/min

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	C3
Material, bearing	Hybrid (ceramic balls)
Coating	Without
Sealing	Seal on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	0.49 kg CO <sub>2</sub>

Logistics	
Product net weight	0.137 kg
eClass code	23-05-08-01



SKF drawings

