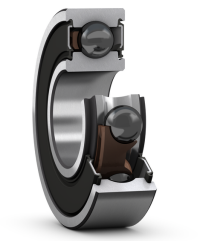

SKF 6204-2RSLTN9/HC5C3WT

Hybrid ceramic deep groove ball bearing with low-friction seals on both sides

Hybrid ceramic single row deep groove ball bearings with low-friction 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 low-friction seals provide better sealing effectiveness than shields and non-contact seals, thus providing significantly prolonged bearing service life, yet they can still operate at the same speeds as shields. 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 dificult conditions and contaminated environments.

Technical specifications

Dimensions	
Bore diameter	20 mm
Outside diameter	47 mm
Width	14 mm
Recess diameter inner ring shoulder	26.3 mm
Recess diameter outer ring shoulder	40.59 mm
Chamfer dimension	1 mm

Abutment dimensions	
Abutment diameter shaft	25.6 mm
Abutment diameter shaft	26 mm
Abutment diameter housing	41.4 mm
Fillet radius	1 mm

Calculation data	
Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Fatigue load limit	0.204 kN
Reference speed	38000 r/min
Limiting speed	18000 r/min
Calculation factor	0.03
Calculation factor	13.1

Performance	
Basic dynamic load rating	12.7 kN
Basic static load rating	6.55 kN
Reference speed	38000 r/min
Limiting speed	18000 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	Low-friction
Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	0.34 kg CO₂e

Logistics	
Product net weight	0.0932 kg

eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings