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6330/HC5C3PS0VA970

Hybrid ceramic deep groove ball bearing for wind turbine generators

Hybrid ceramic single row deep groove ball bearings for wind turbine generators are designed to meet the application requirements for electric generators in larger wind turbines. They have rings made of bearing steel and rolling elements made of bearing grade silicon nitride, which make the bearings electrically insulating. 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. Also available on request with special sized bore and/or outside diameters, suitable for reworked shafts and housings.

- Ideal for use in electric generators of larger wind turbines
- Protected against electric current damage
- Especially suited for use in difficult conditions and contaminated environments
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	150 mm
Outside diameter	320 mm
Width	65 mm

Performance

Basic dynamic load rating	276 kN
Basic static load rating	285 kN
Reference speed	5 300 r/min
Limiting speed	3 200 r/min

Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	C3P
Material, bearing	Hybrid (ceramic balls)
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Candidate for remanufacturing	Yes
Indicative carbon footprint for new product	75.1 kg CO_2e
Indicative carbon footprint for remanufactured product	25 kg CO_2e

Logistics

Product net weight	20.3 kg
eClass code	23-05-08-01
UNSPSC code	31171504

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