GE 240 ES-2RSRadial spherical plain bearing, requiring maintenance, sealed, metric sizes

Radial spherical plain bearing, requiring maintenance, sealed, metric sizes

Radial spherical plain bearings are designed to accommodate radial and combined radial and axial loads, and also misalignment. This specific design includes a steel/steel sliding contact surface combination and a double-lip contact seal on both sides. The bearings require maintenance and can be relubricated via lubrication holes and an annular groove in both rings.

- Designed for radial and combined radial and axial loads
- Long service life
- Minimal maintenance
- Suitable for heavy static, alternating or impact loads

Overview

Dimensions

Bore diameter	240 mm
Outside diameter	340 mm
Width, inner ring	140 mm
Width, outer ring	100 mm

Performance

Basic dynamic load rating	2 550 kN
Basic static load rating	12 700 kN

Properties

Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Maintenance	Relubrication required
Radial internal clearance	CN
Sealing	Seal on both sides
Sealing type	Double-lip
Relubrication feature	With

Technical Specification

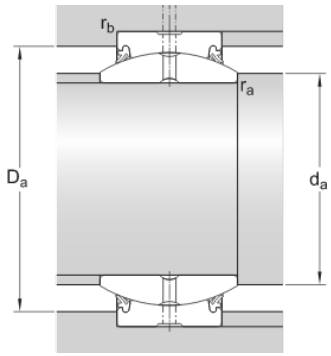
Maintenance	Relubrication required
Sliding contact surface combination	Steel/steel, standard
Material, inner ring	Bearing steel
Material, outer ring	Bearing steel
Sealing	Seal on both sides
Sealing type	Double-lip

Dimensions

d	240 mm	Bore diameter
D	340 mm	Outside diameter
B	140 mm	Width
C	100 mm	Width outer ring
α	8 °	Angle of tilt
d_k	300 mm	Raceway diameter inner ring
b	16 mm	Width annular lubrication groove at outer ring
b_1	16 mm	Width annular lubrication groove at inner ring
M	7 mm	Diameter lubrication hole (outer ring)
r_1	min. 1.1 mm	Chamfer dimension bore
r_2	min. 1.1 mm	Chamfer dimension outer ring

Abutment dimensions

d_a	min. 252.5 mm	Abutment diameter shaft
d_a	max. 265 mm	Abutment diameter shaft
D_a	min. 298 mm	Abutment diameter housing
D_a	max. 329.5 mm	Abutment diameter housing



r_a	max. 1 mm	Fillet radius shaft
r_b	max. 1 mm	Fillet radius housing

Calculation data

Basic dynamic load rating	C	2 550 kN
Basic static load rating	C_0	12 700 kN
Specific dynamic load factor	K	100 N/mm²
Specific static load factor	K_0	500 N/mm²
Material constant	K_M	330

Mass

Mass plain bearing	40 kg

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