

# GE 110 ESRadial spherical plain bearing, requiring maintenance, metric sizes



Radial spherical plain bearing, requiring maintenance, 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. 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
- Suitable for heavy static, alternating or impact loads

## Overview

### Dimensions

Bore diameter	110 mm
Outside diameter	160 mm
Width, inner ring	70 mm
Width, outer ring	55 mm

### Performance

Basic dynamic load rating	655 kN
Basic static load rating	3 250 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	Without
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	Without



### Dimensions

d	110 mm	Bore diameter
D	160 mm	Outside diameter
B	70 mm	Width
C	55 mm	Width outer ring
$\alpha$	6 °	Angle of tilt
$d_k$	140 mm	Raceway diameter inner ring
b	11.5 mm	Width annular lubrication groove at outer ring
$b_1$	11.5 mm	Width annular lubrication groove at inner ring
M	5 mm	Diameter lubrication hole (outer ring)
$r_1$	min. 1 mm	Chamfer dimension bore
$r_2$	min. 1 mm	Chamfer dimension outer ring

### Abutment dimensions

$d_a$	min. 118 mm	Abutment diameter shaft
$d_a$	max. 121 mm	Abutment diameter shaft
$D_a$	min. 133 mm	Abutment diameter housing
$D_a$	max. 153 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	655 kN
Basic static load rating	$C_0$	3 250 kN
Specific dynamic load factor	K	100 N/mm <sup>2</sup>
Specific static load factor	$K_0$	500 N/mm <sup>2</sup>
Material constant	$K_M$	330

## Mass

Mass plain bearing	4.8 kg
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