81138 MSingle row cylindrical roller thrust bearing, single direction



Single row cylindrical roller thrust bearing, single direction

Single row cylindrical roller thrust bearings are designed to accommodate heavy axial loads and peak loads in one direction, but not radial loads. They provide a high degree of stiffness and require little axial space. They are mainly used in applications where thrust ball bearings do not have sufficient load carrying capacity. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High axial load carrying capacity
- High stiffness
- Long service life
- Require little axial space
- Separable design

Overview

Dimensions

Bore diameter	190 mm
Outside diameter	240 mm
Height	37 mm

Performance

Basic dynamic load rating	310 kN
Basic static load rating	1 460 kN
Reference speed	700 r/min
Limiting speed	1 400 r/min

Properties

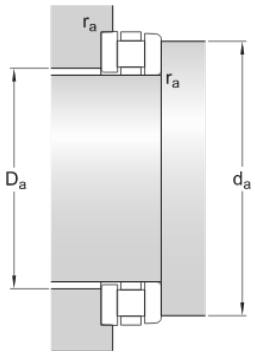
Bearing part	Complete bearing
Axial load capability	Single-direction
Number of rows	1
Cage	Machined metal
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without

Technical Specification

NOT FOUND

Dimensions

d	190 mm	Bore diameter
D	240 mm	Outside diameter
H	37 mm	Height
d_1	237 mm	Outside diameter shaft washer
D_1	193 mm	Bore diameter housing washer
B	11 mm	Height shaft washer
$r_{1,2}$	min. 1.1 mm	Chamfer dimension housing washer



Abutment dimensions

d_a	min. 233 mm	Abutment diameter shaft
D_a	max. 197 mm	Abutment diameter housing
r_a	max. 1.1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	310 kN
Basic static load rating	C_0	1 460 kN
Fatigue load limit	P_u	125 kN
Reference speed		700 r/min
Limiting speed		1 400 r/min
Minimum axial load factor	A	0.171

Mass

Mass bearing	4.74 kg

Included products

Roller and cage thrust assembly	K 81138 M
Shaft washer	WS 81138
Housing washer	GS 81138

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