

511/500 F

Single direction thrust ball bearings can accommodate axial loads in one direction. They must not be subjected to any radial load. Their separable components facilitate mounting/dismounting and maintenance inspections. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit.



- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enable interference fit



Dimensions		
d	500 mm	Bore diameter
D	600 mm	Outside diameter
H	80 mm	Height
d ₁	≈ 596 mm	Outside diameter shaft washer
D ₁	≈ 504 mm	Inner diameter housing washer
r _{1,2}	min. 2.1 mm	Chamfer dimension washer



Abutment dimensions		
da	min. 560 mm	Abutment diameter shaft
Da	max. 540 mm	Abutment diameter housing
ra	max. 2 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	553 kN
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Basic static load rating	C ₀	3 600 kN
Fatigue load limit	P _u	57 kN
Reference speed		560 r/min
Limiting speed		800 r/min
Minimum load factor	A	67

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit