

7280 BM

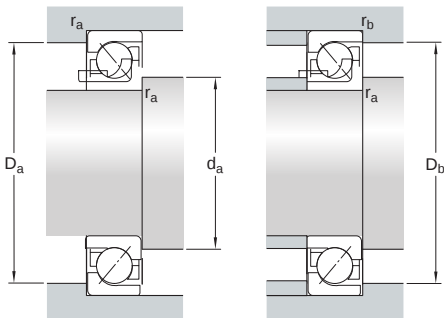


These single row angular contact ball bearings can accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They can operate at high speeds and, depending on the variant, even very high speeds. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

- High-speed capability
- Accommodate relatively high radial loads and large unilateral axial loads



Dimensions		
d	400 mm	Bore diameter
D	720 mm	Outside diameter
B	103 mm	Width
d ₁	≈ 532 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 486 mm	Shoulder diameter of inner ring (small side face)
D ₁	≈ 591 mm	Shoulder diameter of outer ring (large side face)
a	287 mm	Distance side face to pressure point
r _{1,2}	min. 6 mm	Chamfer dimension
r _{3,4}	min. 3 mm	Chamfer dimension



Abutment dimensions		
da	min. 423 mm	Diameter of shaft abutment
Da	max. 697 mm	Abutment diameter housing
Db	max. 707 mm	Diameter of housing abutment
ra	max. 5 mm	Radius of fillet
rb	max. 2.5 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	728 kN
Basic static load rating	C ₀	1 500 kN
Fatigue load limit	P _u	26.5 kN
Reference speed		900 r/min
Limiting speed		900 r/min
Minimum axial load factor	A	36.3
Minimum radial load factor	k _r	0.08
Limiting value	e	1.14

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (), P6, P5, Normal (inch)
- Internal clearance: CA+CB+CC, G
- Preload: GA+GB+GC

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit