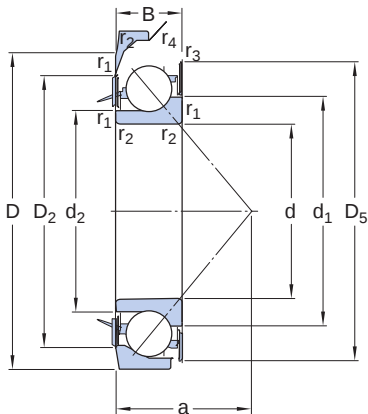


7205 BE-2RZP

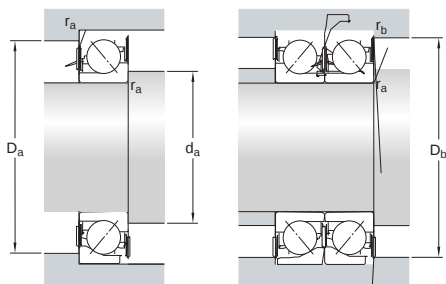


These single row angular contact ball bearings, with 40° contact angle and non-contact seals on both sides, accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They have a ball-centred glass-fibre reinforced PA66 cage. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

- 40° contact angle
- Integral sealing prolongs bearing service life
- Glass-fibre reinforced PA66 cage
- Accommodate relatively high radial loads and large unilateral axial loads



Dimensions		
d	25 mm	Bore diameter
D	52 mm	Outside diameter
B	15 mm	Width
d ₁	≈ 35.85 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 30.87 mm	Shoulder diameter of inner ring (small side face)
D ₂	≈ 42.7 mm	Recess diameter of outer ring (large side face)
D ₅	≈ 48 mm	Recess diameter of outer ring (small side face)
a	24 mm	Distance side face to pressure point
r _{1,2}	min. 1 mm	Chamfer dimension
r _{3,4}	min. 0.6 mm	Chamfer dimension



Abutment dimensions

d_a	min. 30.6 mm	Diameter of shaft abutment
d_a	max. 35.5 mm	Diameter of shaft abutment
D_a	max. 46.4 mm	Abutment diameter housing
D_b	max. 47.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	14.8 kN
Basic static load rating	C_0	9.3 kN
Fatigue load limit	P_u	0.4 kN
Reference speed		16 000 r/min
Limiting speed		12 000 r/min
Minimum axial load factor	A	0.00159
Minimum radial load factor	k_r	0.095
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