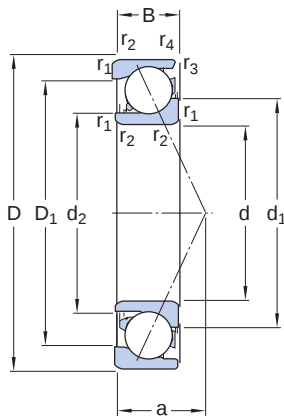


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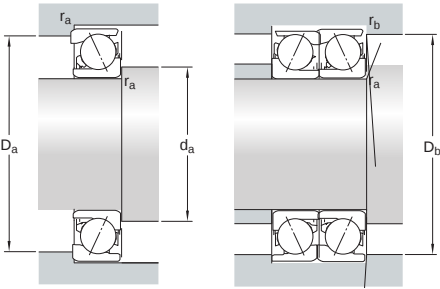
These single row angular contact ball bearings, with 25° contact angle, accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They have Normal axial internal clearance and are suitable for universal matching, where two bearings can be arranged back-to-back or face-to-face. They have a ball-centred brass cage. They can operate at 20% higher speeds than equivalent bearings with 40° contact angle.



- 25° contact angle
- Brass cage
- Suitable for universal matching
- Can operate at very high speeds
- Accommodate relatively high radial loads and large unilateral axial loads



Dimensions		
d	30 mm	Bore diameter
D	62 mm	Outside diameter
B	16 mm	Width
d ₁	≈ 42.48 mm	Shoulder diameter of inner ring (large side face)
d ₂	≈ 35.96 mm	Shoulder diameter of inner ring (small side face)
D ₁	≈ 50.1 mm	Shoulder diameter of outer ring (large side face)
a	18 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. 35.6 mm	Diameter of shaft abutment
D_a	max. 56.4 mm	Abutment diameter housing
D_b	max. 57.8 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet
r_b	max. 0.6 mm	Radius of fillet

Calculation data

performance class		Explorer
Basic dynamic load rating	C	27.5 kN
Basic static load rating	C_0	17.3 kN
Fatigue load limit	P_u	0.735 kN
Reference speed		14 000 r/min
Limiting speed		22 000 r/min
Minimum axial load factor	A	0.00155
Minimum radial load factor	k_r	0.095
Limiting value	e	0.68

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