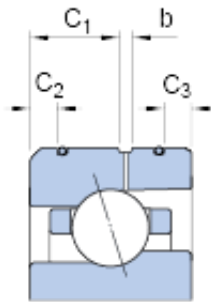
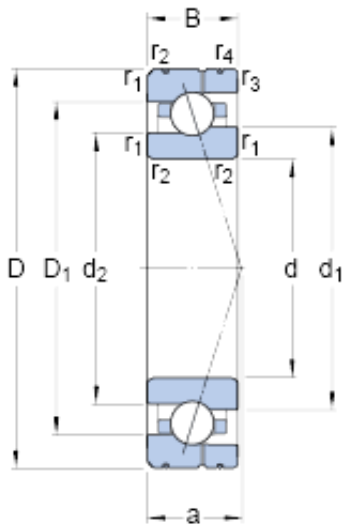




BEARING CORP. LTD.



35 mm x 62 mm x 14 mm SKF 7007 CE/P4AL
angular contact ball bearings

Bearing No. 7007 CE/P4AL

7007 CE/P4AL Bearing 2D drawings and 3D CAD models

Size	62x35x14 mm
Bore Diameter	62 mm
Outer Diameter	35 mm
Width	14 mm
d	35 mm
D	62 mm
B	14 mm
d ₁	43.7 mm
d ₂	41.6 mm
D ₁	52.25 mm
b	1.7 mm
C ₁	7.3 mm
C ₂	2.2 mm
C ₃	2.8 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.6 mm
a	13.5 mm
d _a - min.	39.6 mm
d _b - min.	39.6 mm
D _a - max.	57.4 mm
D _b - max.	57.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	45.6 mm



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Basic dynamic load rating - C	11.4 kN
Basic static load rating - C ₀	6.6 kN
Fatigue load limit - P _u	0.28 kN
Limiting speed for grease lubrication	34000 r/min
Limiting speed for oil lubrication	50000 mm/min
Ball - D _w	7.144 mm
Ball - z	17
G _{ref}	2.4 cm ³
Calculation factor - f ₀	7.9
Preload class A - G _A	60 N
Preload class B - G _B	180 N
Preload class C - G _C	370 N
Calculation factor - f	1.06
Calculation factor - f	1
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.03
Calculation factor - f _{2C}	1.05
Calculation factor - f _{HC}	1
Preload class A	31 N/micron
Preload class B	49 N/micron
Preload class C	67 N/micron
d ₁	43.7 mm
d ₂	41.6 mm
D ₁	52.25 mm
C ₁	7.3 mm
C ₂	2.2 mm
C ₃	2.8 mm
r _{1,2} min.	1 mm



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$r_{3,4}$ min.	0.6 mm
d_a min.	39.6 mm
d_b min.	39.6 mm
D_a max.	57.4 mm
D_b max.	57.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	45.6 mm
Basic dynamic load rating C	11.4 kN
Basic static load rating C_0	6.55 kN
Fatigue load limit P_u	0.28 kN
Attainable speed for grease lubrication	34000 r/min
Attainable speed for oil-air lubrication	50000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	17
Reference grease quantity G_{ref}	2.4 cm ³
Preload class A G_A	60 N
Static axial stiffness, preload class A	31 N/ μ m
Preload class B G_B	180 N
Static axial stiffness, preload class B	49 N/ μ m
Preload class C G_C	370 N
Static axial stiffness, preload class C	67 N/ μ m
Calculation factor f	1.06
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1



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Calculation factor f_0	7.9
Mass bearing	0.15 kg