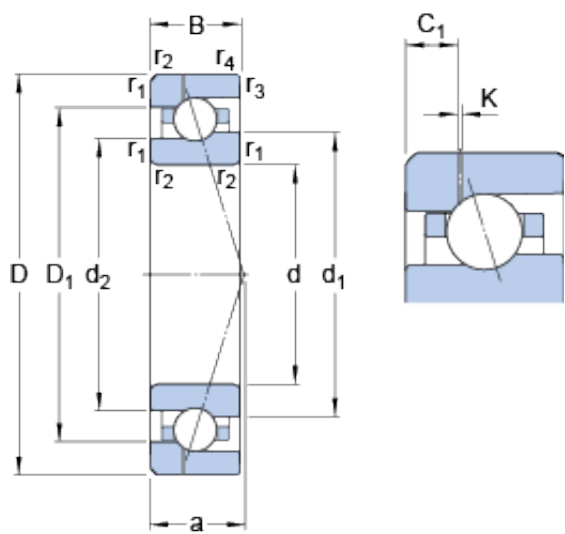




Bearing No. 7007 CE/HCP4AH1

K	0.5 mm
a	13.5 mm
d	35 mm
D	62 mm
B	14 mm
Ball - z	17
Size (mm)	62x35x14
Width (mm)	14
Mass bearing	0.13 kg
d_n	45.6 mm
D_1	52.25 mm
d_1	43.7 mm
C_1	4.52 mm
D_1	52.25 mm
d_2	41.6 mm
C_1	4.52 mm
d_1	43.7 mm
d_n	45.6 mm
d_2	41.6 mm
Bearing number	7007 CE/HCP4AH1
Preload class B	54 N/micron
Preload class C	74 N/micron
G_{ref}	2.4 cm3
Preload class A	35 N/micron
Number of balls z	17
D_a max.	57.4 mm
d_a min.	39.6 mm
d_b min.	39.6 mm
D_b max.	57.8 mm

r_a max.	1 mm
r_b max.	0.6 mm
Bore Diameter (mm)	62
Outer Diameter (mm)	35
r_b - max.	0.6 mm
$r_{1,2}$ min.	1 mm
d_a - min.	39.6 mm
Calculation factor f	1.06
r_a - max.	1 mm
$r_{3,4}$ min.	0.6 mm
d_b - min.	39.6 mm
Ball - D_w	7.144 mm
D_a - max.	57.4 mm
D_b - max.	57.8 mm
Calculation factor - f	1.06
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1 mm
Basic dynamic load rating C	11.4 kN
Ball diameter D_w	7.144 mm
Preload class C G_C	370 N
Preload class B G_B	180 N
Preload class A G_A	60 N
Basic dynamic load rating - C	11.4 kN
Preload class C - G_C	370 N
Preload class A - G_A	60 N
Preload class B - G_B	180 N
Calculation factor f_1	1
Calculation factor f_0	7.9
Fatigue load limit P_u	0.28 kN
Calculation factor - f	1

Calculation factor f_{HC}	1.01
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Fatigue load limit - P_u	0.28 kN
Limiting speed for oil lubrication	63000 mm/min
Calculation factor - f_0	7.9
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.03
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	40000 r/min
Basic static load rating C_0	6.55 kN
Static axial stiffness, preload class C	74 N/ μ m
Static axial stiffness, preload class A	35 N/ μ m
Attainable speed for grease lubrication	40000 r/min
Static axial stiffness, preload class B	54 N/ μ m
Basic static load rating - C_0	6.6 kN
Attainable speed for oil-air lubrication	63000 r/min
Reference grease quantity G_{ref}	2.4 cm ³