



Bearing No. 7219 ACD/HCP4A

D	170 mm
d	95 mm
B	32 mm
a	47.1 mm
Ball - z	15
Size (mm)	170x95x32
Width (mm)	32
Mass bearing	2.2 kg
d _n	124.4 mm
d _n	124.4 mm
D ₁	146.9 mm
d ₁	118.1 mm
d ₂	118.1 mm
D ₁	146.9 mm
d ₂	118.1 mm
d ₁	118.1 mm
Bearing number	7219 ACD/HCP4A
Preload class B	405 N/micron
Preload class A	310 N/micron
Preload class D	721 N/micron
Preload class C	535 N/micron
G _{ref}	34.314 cm3
Number of balls z	15
Bore Diameter (mm)	170
r _b max.	1 mm
r _a max.	2 mm
D _b max.	163 mm
D _a max.	158 mm
d _a min.	107 mm

d_b min.	107 mm
Outer Diameter (mm)	95
D_b - max.	163 mm
d_b - min.	107 mm
Ball - D_w	23.812 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a - min.	107 mm
r_a - max.	2 mm
D_a - max.	158 mm
r_b - max.	1 mm
Calculation factor f	1.09
Calculation factor e	0.68
$r_{1,2}$ - min.	2.1 mm
$r_{3,4}$ - min.	1.1 mm
Calculation factor - e	0.68
Calculation factor - f	1.09
Ball diameter D_w	23.812 mm
Basic dynamic load rating C	133 kN
Preload class C G_C	3400 N
Preload class B G_B	1700 N
Preload class A G_A	850 N
Preload class D G_D	6800 N
Basic dynamic load rating - C	133 kN
Preload class B - G_B	1700 N
Preload class D - G_D	6800 N
Preload class C - G_C	3400 N
Preload class A - G_A	850 N
Fatigue load limit P_u	4.25 kN
Calculation factor f_1	0.99

Calculation factor f_{2A}	1
Calculation factor f_{2C}	1.03
Calculation factor f_{2B}	1.01
Calculation factor f_{2D}	1.06
Calculation factor f_{HC}	1.01
Calculation factor - X_2	0.67
Calculation factor - f_1	0.99
Calculation factor - Y_1	0.92
Limiting speed for oil lubrication	14000 mm/min
Calculation factor - Y_0	0.76
Fatigue load limit - P_u	4.2 kN
Calculation factor - Y_2	1.41
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2D}	1.06
Limiting speed for grease lubrication	8500 r/min
Basic static load rating C_0	114 kN
Static axial stiffness, preload class B	405 N/μm
Attainable speed for grease lubrication	8500 r/min
Static axial stiffness, preload class D	721 N/μm
Static axial stiffness, preload class C	535 N/μm
Static axial stiffness, preload class A	310 N/μm
Basic static load rating -	114 kN

C_0	
Attainable speed for oil-air lubrication	14000 r/min
Reference grease quantity G_{ref}	34.314 cm ³
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67