



Bearing No. 7019 ACB/HCP4AL

b	2.2 mm
d	95 mm
a	40.2 mm
B	24 mm
D	145 mm
Ball - z	26
Size (mm)	145x95x24
Width (mm)	24
Mass bearing	1.23 kg
d ₂	111.15 mm
D ₂	130 mm
d _n	115 mm
C ₁	13.4 mm
C ₂	5.2 mm
C ₃	4.2 mm
C ₂	5.2 mm
C ₁	13.4 mm
d _n	115 mm
D ₂	130 mm
d ₂	111.15 mm
d ₁	113.7 mm
d ₁	113.7 mm
C ₃	4.2 mm
Bearing number	7019 ACB/HCP4AL
Preload class A	165 N/micron
Preload class B	211 N/micron
G _{ref}	14.72 cm ³
Preload class C	318 N/micron
Number of balls z	26

Bore Diameter (mm)	145
r_b max.	1 mm
r_a max.	1.5 mm
D_b max.	140.4 mm
D_a max.	138 mm
d_a min.	102 mm
d_b min.	102 mm
Outer Diameter (mm)	95
r_b - max.	1 mm
$r_{3,4}$ min.	1 mm
d_b - min.	102 mm
D_a - max.	138 mm
D_b - max.	140.4 mm
$r_{1,2}$ min.	1.5 mm
d_a - min.	102 mm
r_a - max.	1.5 mm
Ball - D_w	10.319 mm
Calculation factor f	1.07
Calculation factor e	0.68
$r_{3,4}$ - min.	1 mm
Calculation factor - f	1.07
$r_{1,2}$ - min.	1.5 mm
Calculation factor - e	0.68
Ball diameter D_w	10.319 mm
Basic dynamic load rating C	35.8 kN
Preload class C G_C	990 N
Basic dynamic load rating - C	27.6 kN
Preload class B G_B	330 N
Preload class A G_A	165 N
Preload class C - G_C	990 N

Preload class A - G_A	165 N
Preload class B - G_B	330 N
Calculation factor f_1	0.99
Fatigue load limit P_u	0.95 kN
Calculation factor f_{HC}	1.01
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Limiting speed for oil lubrication	19000 mm/min
Calculation factor - Y_1	0.92
Fatigue load limit - P_u	0.95 kN
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Limiting speed for grease lubrication	13000 r/min
Basic static load rating C_0	41.5 kN
Static axial stiffness, preload class A	165 N/ μ m
Static axial stiffness, preload class C	318 N/ μ m
Static axial stiffness, preload class B	211 N/ μ m
Attainable speed for grease lubrication	13000 r/min

Basic static load rating - C_0	24.5 kN
Attainable speed for oil-air lubrication	19000 r/min
Reference grease quantity G_{ref}	14.72 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