



**Bearing No. 7019 ACB/P4A**

D	145 mm
d	95 mm
B	24 mm
a	40.2 mm
Ball - z	26
Size (mm)	145x95x24
Width (mm)	24
Mass bearing	1.3 kg
d <sub>n</sub>	115 mm
d <sub>n</sub>	115 mm
D <sub>2</sub>	130 mm
d <sub>1</sub>	113.7 mm
d <sub>2</sub>	111.15 mm
D <sub>2</sub>	130 mm
d <sub>2</sub>	111.15 mm
d <sub>1</sub>	113.7 mm
Bearing number	7019 ACB/P4A
Preload class A	147 N/micron
G <sub>ref</sub>	14.72 cm <sup>3</sup>
Preload class C	286 N/micron
Preload class B	190 N/micron
Number of balls z	26
Bore Diameter (mm)	145
r <sub>b</sub> max.	1 mm
r <sub>a</sub> max.	1.5 mm
D <sub>b</sub> max.	140.4 mm
D <sub>a</sub> max.	138 mm
d <sub>a</sub> min.	102 mm
d <sub>b</sub> min.	102 mm

Outer Diameter (mm)	95
$D_b$ - max.	140.4 mm
$d_a$ - min.	102 mm
Calculation factor e	0.68
Calculation factor f	1.07
$r_b$ - max.	1 mm
$D_a$ - max.	138 mm
$r_a$ - max.	1.5 mm
$r_{3,4}$ min.	1 mm
$r_{1,2}$ min.	1.5 mm
Ball - $D_w$	10.319 mm
$d_b$ - min.	102 mm
$r_{1,2}$ - min.	1.5 mm
$r_{3,4}$ - min.	1 mm
Calculation factor - e	0.68
Calculation factor - f	1.07
Basic dynamic load rating C	35.8 kN
Ball diameter $D_w$	10.319 mm
Preload class B $G_B$	330 N
Preload class C $G_C$	990 N
Basic dynamic load rating - C	27.6 kN
Preload class A $G_A$	165 N
Preload class B - $G_B$	330 N
Preload class C - $G_C$	990 N
Preload class A - $G_A$	165 N
Fatigue load limit $P_u$	0.95 kN
Calculation factor $f_1$	0.99
Calculation factor $f_{2C}$	1.04
Calculation factor $f_{2A}$	1
Calculation factor $f_{HC}$	1

Calculation factor $f_{2B}$	1.01
Limiting speed for oil lubrication	16000 mm/min
Fatigue load limit - $P_u$	0.95 kN
Calculation factor - $f_1$	0.99
Calculation factor - $Y_2$	1.41
Calculation factor - $X_2$	0.67
Calculation factor - $Y_1$	0.92
Calculation factor - $Y_0$	0.76
Calculation factor - $f_{HC}$	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.04
Calculation factor - $f_{2B}$	1.01
Limiting speed for grease lubrication	11000 r/min
Basic static load rating $C_0$	41.5 kN
Static axial stiffness, preload class B	190 N/ $\mu$ m
Static axial stiffness, preload class A	147 N/ $\mu$ m
Attainable speed for grease lubrication	11000 r/min
Static axial stiffness, preload class C	286 N/ $\mu$ m
Basic static load rating - $C_0$	24.5 kN
Attainable speed for oil-air lubrication	16000 r/min
Reference grease quantity $G_{ref}$	14.72 cm <sup>3</sup>
Calculation factor (single, tandem) $Y_2$	0.87
Calculation factor	0.38

(single, tandem) $Y_0$	
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