



**Bearing No. 7017 ACB/HCP4A**

D	130 mm
d	85 mm
B	22 mm
a	36.3 mm
Ball - z	28
Size (mm)	130x85x22
Width (mm)	22
Mass bearing	0.9 kg
$d_n$	103 mm
$d_n$	103 mm
$D_2$	116.4 mm
$d_1$	101.7 mm
$d_2$	99.3 mm
$D_2$	116.4 mm
$d_2$	99.3 mm
$d_1$	101.7 mm
Bearing number	7017 ACB/HCP4A
Preload class A	163 N/micron
$G_{ref}$	11.02 cm <sup>3</sup>
Preload class C	316 N/micron
Preload class B	211 N/micron
Number of balls z	28
Bore Diameter (mm)	130
$r_b$ max.	0.6 mm
$r_a$ max.	1 mm
$D_b$ max.	126.8 mm
$D_a$ max.	124 mm
$d_a$ min.	91 mm
$d_b$ min.	91 mm

Outer Diameter (mm)	85
$D_b$ - max.	126.8 mm
$d_a$ - min.	91 mm
Calculation factor e	0.68
Calculation factor f	1.08
$r_b$ - max.	0.6 mm
$D_a$ - max.	124 mm
$r_a$ - max.	1 mm
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1.1 mm
Ball - $D_w$	9.525 mm
$d_b$ - min.	91 mm
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - e	0.68
Calculation factor - f	1.08
Basic dynamic load rating C	30.2 kN
Ball diameter $D_w$	9.525 mm
Preload class B $G_B$	300 N
Preload class C $G_C$	900 N
Basic dynamic load rating - C	25.1 kN
Preload class A $G_A$	150 N
Preload class B - $G_B$	300 N
Preload class C - $G_C$	900 N
Preload class A - $G_A$	150 N
Fatigue load limit $P_u$	0.915 kN
Calculation factor $f_1$	0.99
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2A}$	1
Calculation factor $f_{HC}$	1.01

Calculation factor $f_{2B}$	1.02
Limiting speed for oil lubrication	22000 mm/min
Fatigue load limit - $P_u$	0.915 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 - $f_{HC}$	1.01
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2B}$	1.02
Limiting speed for grease lubrication	14000 r/min
Basic static load rating $C_0$	33.5 kN
Static axial stiffness, preload class B	211 N/ $\mu$ m
Static axial stiffness, preload class A	163 N/ $\mu$ m
Attainable speed for grease lubrication	14000 r/min
Static axial stiffness, preload class C	316 N/ $\mu$ m
Basic static load rating - $C_0$	22.4 kN
Attainable speed for oil-air lubrication	22000 r/min
Reference grease quantity $G_{ref}$	11.02 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