



Bearing No. 7017 ACB/HCP4AL

b	2.5 mm
d	85 mm
a	36.3 mm
B	22 mm
D	130 mm
Ball - z	28
Size (mm)	130x85x22
Width (mm)	22
Mass bearing	0.9 kg
d <sub>2</sub>	99.3 mm
D <sub>2</sub>	116.4 mm
d <sub>n</sub>	103 mm
C <sub>1</sub>	11.1 mm
C <sub>2</sub>	4.7 mm
C <sub>3</sub>	3.2 mm
C <sub>2</sub>	4.7 mm
C <sub>1</sub>	11.1 mm
d <sub>n</sub>	103 mm
D <sub>2</sub>	116.4 mm
d <sub>2</sub>	99.3 mm
d <sub>1</sub>	101.7 mm
d <sub>1</sub>	101.7 mm
C <sub>3</sub>	3.2 mm
Bearing number	7017 ACB/HCP4AL
Preload class A	163 N/micron
Preload class B	211 N/micron
G <sub>ref</sub>	11.02 cm <sup>3</sup>
Preload class C	316 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
$r_b$ - max.	0.6 mm
$r_{3,4}$ min.	0.6 mm
$d_b$ - min.	91 mm
$D_a$ - max.	124 mm
$D_b$ - max.	126.8 mm
$r_{1,2}$ min.	1.1 mm
$d_a$ - min.	91 mm
$r_a$ - max.	1 mm
Ball - $D_w$	9.525 mm
Calculation factor f	1.08
Calculation factor e	0.68
$r_{3,4}$ - min.	0.6 mm
Calculation factor - f	1.08
$r_{1,2}$ - min.	1.1 mm
Calculation factor - e	0.68
Ball diameter $D_w$	9.525 mm
Basic dynamic load rating C	30.2 kN
Preload class C $G_C$	900 N
Basic dynamic load rating - C	25.1 kN
Preload class B $G_B$	300 N
Preload class A $G_A$	150 N
Preload class C - $G_C$	900 N

Preload class A - $G_A$	150 N
Preload class B - $G_B$	300 N
Calculation factor $f_1$	0.99
Fatigue load limit $P_u$	0.915 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	22000 mm/min
Calculation factor - $Y_1$	0.92
Fatigue load limit - $P_u$	0.915 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	14000 r/min
Basic static load rating $C_0$	33.5 kN
Static axial stiffness, preload class A	163 N/ $\mu$ m
Static axial stiffness, preload class C	316 N/ $\mu$ m
Static axial stiffness, preload class B	211 N/ $\mu$ m
Attainable speed for grease lubrication	14000 r/min

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 (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