



Bearing No. 7015 ACB/HCP4A

D	115 mm
d	75 mm
B	20 mm
a	32.3 mm
Ball - z	30
Size (mm)	115x75x20
Width (mm)	20
Mass bearing	0.66 kg
d_n	91.1 mm
d_n	91.1 mm
D_2	102.8 mm
d_1	90 mm
d_2	88.2 mm
D_2	102.8 mm
d_2	88.2 mm
d_1	90 mm
Bearing number	7015 ACB/HCP4A
Preload class A	148 N/micron
G_{ref}	7.7 cm ³
Preload class C	285 N/micron
Preload class B	188 N/micron
Number of balls z	30
Bore Diameter (mm)	115
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	111.8 mm
D_a max.	109 mm
d_a min.	81 mm
d_b min.	81 mm

Outer Diameter (mm)	75
D_b - max.	111.8 mm
d_a - min.	81 mm
Calculation factor e	0.68
Calculation factor f	1.08
r_b - max.	0.6 mm
D_a - max.	109 mm
r_a - max.	1 mm
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1.1 mm
Ball - D_w	7.938 mm
d_b - min.	81 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	25.1 kN
Ball diameter D_w	7.938 mm
Preload class B G_B	230 N
Preload class C G_C	690 N
Basic dynamic load rating - C	19 kN
Preload class A G_A	115 N
Preload class B - G_B	230 N
Preload class C - G_C	690 N
Preload class A - G_A	115 N
Fatigue load limit P_u	0.71 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	26000 mm/min
Fatigue load limit - P_u	0.71 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	17000 r/min
Basic static load rating C_0	27 kN
Static axial stiffness, preload class B	188 N/ μ m
Static axial stiffness, preload class A	148 N/ μ m
Attainable speed for grease lubrication	17000 r/min
Static axial stiffness, preload class C	285 N/ μ m
Basic static load rating - C_0	16.6 kN
Attainable speed for oil-air lubrication	26000 r/min
Reference grease quantity G_{ref}	7.7 cm ³
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