



Bearing No. 7015 ACE/HCP4AL1

b	1.6 mm
d	75 mm
a	32.3 mm
B	20 mm
D	115 mm
Ball - z	26
Size (mm)	115x75x20
Width (mm)	20
Mass bearing	0.59 kg
d ₂	86.8 mm
D ₁	100.72 mm
d _n	91.5 mm
C ₁	6.1 mm
C ₂	3.4 mm
C ₃	3.4 mm
C ₂	3.4 mm
C ₁	6.1 mm
d _n	91.5 mm
D ₁	100.72 mm
d ₂	86.8 mm
d ₁	89.28 mm
d ₁	89.28 mm
C ₃	3.4 mm
Bearing number	7015 ACE/HCP4AL1
Preload class A	178 N/micron
Preload class B	269 N/micron
G _{ref}	8.6 cm ³
Preload class C	353 N/micron
Number of balls z	26

Bore Diameter (mm)	115
r_b max.	0.6 mm
r_a max.	1 mm
D_b max.	110.8 mm
D_a max.	109 mm
d_a min.	81 mm
d_b min.	81 mm
Outer Diameter (mm)	75
r_b - max.	0.6 mm
$r_{3,4}$ min.	0.6 mm
d_b - min.	81 mm
D_a - max.	109 mm
D_b - max.	110.8 mm
$r_{1,2}$ min.	1.1 mm
d_a - min.	81 mm
r_a - max.	1 mm
Ball - D_w	9.525 mm
Calculation factor f	1.1
Calculation factor e	0.68
$r_{3,4}$ - min.	0.6 mm
Calculation factor - f	1.1
$r_{1,2}$ - min.	1.1 mm
Calculation factor - e	0.68
Ball diameter D_w	9.525 mm
Basic dynamic load rating C	24.7 kN
Preload class C G_C	1340 N
Basic dynamic load rating - C	24.7 kN
Preload class B G_B	670 N
Preload class A G_A	220 N
Preload class C - G_C	1340 N

Preload class A - G_A	220 N
Preload class B - G_B	670 N
Calculation factor f_1	0.99
Fatigue load limit P_u	0.865 kN
Calculation factor f_{HC}	1.01
Calculation factor f_{2C}	1.06
Calculation factor f_{2B}	1.03
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	27000 mm/min
Calculation factor - Y_1	0.92
Fatigue load limit - P_u	0.865 kN
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2C}	1.06
Calculation factor - f_{2B}	1.03
Limiting speed for grease lubrication	17000 r/min
Basic static load rating C_0	20.4 kN
Static axial stiffness, preload class A	178 N/ μ m
Static axial stiffness, preload class C	353 N/ μ m
Static axial stiffness, preload class B	269 N/ μ m
Attainable speed for grease lubrication	17000 r/min

Basic static load rating - C_0	20.4 kN
Attainable speed for oil-air lubrication	27000 r/min
Reference grease quantity G_{ref}	8.6 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