



Bearing No. 7015 ACD/HCP4AH1

K	0.5 mm
a	32.3 mm
d	75 mm
D	115 mm
B	20 mm
Ball - z	20
Size (mm)	115x75x20
Width (mm)	20
Mass bearing	0.53 kg
d_n	90 mm
D_1	102.7 mm
d_1	87.3 mm
C_1	5.4 mm
D_1	102.7 mm
d_2	87.3 mm
C_1	5.4 mm
d_1	87.3 mm
d_n	90 mm
d_2	87.3 mm
Bearing number	7015 ACD/HCP4AH1
Preload class B	290 N/micron
Preload class A	222 N/micron
Preload class D	522 N/micron
G_{ref}	8.4 cm ³
Preload class C	386 N/micron
Number of balls z	20
Bore Diameter (mm)	115
r_b max.	0.6 mm
r_a max.	1 mm

D_b max.	111 mm
D_a max.	109 mm
d_a min.	81 mm
d_b min.	81 mm
Outer Diameter (mm)	75
r_a - max.	1 mm
D_a - max.	109 mm
d_b - min.	81 mm
d_a - min.	81 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
Ball - D_w	12.7 mm
r_b - max.	0.6 mm
D_b - max.	111 mm
Calculation factor f	1.14
Calculation factor e	0.68
Calculation factor - f	1.14
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - e	0.68
Ball diameter D_w	12.7 mm
Basic dynamic load rating C	49.4 kN
Preload class A G_A	310 N
Preload class B G_B	620 N
Preload class C G_C	1240 N
Basic dynamic load rating - C	49.4 kN
Preload class D G_D	2480 N
Preload class B - G_B	620 N
Preload class A - G_A	310 N
Preload class D - G_D	2480 N

Preload class C - G_C	1240 N
Fatigue load limit P_u	1.96 kN
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1.02
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Calculation factor - f_1	0.99
Limiting speed for oil lubrication	20000 mm/min
Fatigue load limit - P_u	2 kN
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	13000 r/min
Basic static load rating C_0	46.5 kN
Static axial stiffness, preload class A	222 N/ μ m
Static axial stiffness, preload class D	522 N/ μ m
Static axial stiffness, preload class C	386 N/ μ m
Static axial stiffness,	290 N/ μ m

preload class B	
Attainable speed for grease lubrication	13000 r/min
Basic static load rating - C_0	46.5 kN
Attainable speed for oil-air lubrication	20000 r/min
Reference grease quantity G_{ref}	8.4 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