



Bearing No. 7015 ACD/P4AL

b	1.8 mm
d	75 mm
a	32.3 mm
B	20 mm
D	115 mm
Ball - z	20
Size (mm)	115x75x20
Width (mm)	20
Mass bearing	0.63 kg
d ₂	87.3 mm
D ₁	102.7 mm
d _n	90 mm
C ₁	10.9 mm
C ₂	3.9 mm
C ₃	3.4 mm
C ₂	3.9 mm
C ₁	10.9 mm
d _n	90 mm
D ₁	102.7 mm
d ₂	87.3 mm
d ₁	87.3 mm
d ₁	87.3 mm
C ₃	3.4 mm
Bearing number	7015 ACD/P4AL
Preload class B	262 N/micron
Preload class A	200 N/micron
G _{ref}	8.4 cm ³
Preload class D	471 N/micron
Preload class C	347 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_b - max.	0.6 mm
d_b - min.	81 mm
d_a - min.	81 mm
D_b - max.	111 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
D_a - max.	109 mm
r_a - max.	1 mm
Ball - D_w	12.7 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 C - G_C	1240 N
Preload class B - G_B	620 N
Preload class A - G_A	310 N
Preload class D - G_D	2480 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
Calculation factor - Y_0	0.76
Calculation factor - Y_2	1.41
Calculation factor - Y_1	0.92
Calculation factor - f_1	0.99
Calculation factor - X_2	0.67
Fatigue load limit - P_u	2 kN
Limiting speed for oil lubrication	16000 mm/min
Calculation factor - f_{2B}	1.02
Calculation factor - f_{HC}	1
Calculation factor - f_{2D}	1.08
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2A}	1
Limiting speed for grease lubrication	10000 r/min
Basic static load rating C_0	46.5 kN
Static axial stiffness, preload class A	200 N/ μ m
Static axial stiffness,	471 N/ μ m

preload class D	
Static axial stiffness, preload class C	347 N/ μ m
Static axial stiffness, preload class B	262 N/ μ m
Attainable speed for grease lubrication	10000 r/min
Attainable speed for oil-air lubrication	16000 r/min
Basic static load rating - C_0	46.5 kN
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