



Bearing No. 7215 ACD/HCP4A

D	130 mm
d	75 mm
B	25 mm
a	36.5 mm
Ball - z	17
Size (mm)	130x75x25
Width (mm)	25
Mass bearing	1.04 kg
d_n	96.6 mm
d_n	96.6 mm
D_1	112.1 mm
d_1	92.9 mm
d_2	92.9 mm
D_1	112.1 mm
d_2	92.9 mm
d_1	92.9 mm
Bearing number	7215 ACD/HCP4A
Preload class B	304 N/micron
Preload class A	234 N/micron
Preload class D	540 N/micron
Preload class C	401 N/micron
G_{ref}	14.895 cm ³
Number of balls z	17
Bore Diameter (mm)	130
r_b max.	0.6 mm
r_a max.	1.5 mm
D_b max.	125.8 mm
D_a max.	121 mm
d_a min.	84 mm

d _b min.	84 mm
Outer Diameter (mm)	75
D _b - max.	125.8 mm
d _b - min.	84 mm
Ball - D _w	15.875 mm
r _{1,2} min.	1.5 mm
r _{3,4} min.	0.6 mm
d _a - min.	84 mm
r _a - max.	1.5 mm
D _a - max.	121 mm
r _b - max.	0.6 mm
Calculation factor f	1.08
Calculation factor e	0.68
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	0.6 mm
Calculation factor - e	0.68
Calculation factor - f	1.08
Ball diameter D _w	15.875 mm
Basic dynamic load rating C	68.9 kN
Preload class C G _C	1720 N
Preload class B G _B	860 N
Preload class A G _A	430 N
Preload class D G _D	3440 N
Basic dynamic load rating - C	68.9 kN
Preload class B - G _B	860 N
Preload class D - G _D	3440 N
Preload class C - G _C	1720 N
Preload class A - G _A	430 N
Fatigue load limit P _u	2.5 kN
Calculation factor f ₁	0.99

Calculation factor f_{2A}	1
Calculation factor f_{2C}	1.03
Calculation factor f_{2B}	1.01
Calculation factor f_{2D}	1.06
Calculation factor f_{HC}	1.01
Calculation factor - X_2	0.67
Calculation factor - f_1	0.99
Calculation factor - Y_1	0.92
Limiting speed for oil lubrication	18000 mm/min
Calculation factor - Y_0	0.76
Fatigue load limit - P_u	2.5 kN
Calculation factor - Y_2	1.41
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2D}	1.06
Limiting speed for grease lubrication	11000 r/min
Basic static load rating C_0	58.5 kN
Static axial stiffness, preload class B	304 N/ μm
Attainable speed for grease lubrication	11000 r/min
Static axial stiffness, preload class D	540 N/ μm
Static axial stiffness, preload class C	401 N/ μm
Static axial stiffness, preload class A	234 N/ μm
Basic static load rating -	58.5 kN

C ₀	
Attainable speed for oil-air lubrication	18000 r/min
Reference grease quantity G _{ref}	14.895 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