



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 cm3
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