



Bearing No. 7214 ACD/HCP4A

D	125 mm
d	70 mm
B	24 mm
a	34.9 mm
Ball - z	16
Size (mm)	125x70x24
Width (mm)	24
Mass bearing	0.95 kg
d_n	91.6 mm
d_n	91.6 mm
D_1	107.1 mm
d_1	87.9 mm
d_2	87.9 mm
D_1	107.1 mm
d_2	87.9 mm
d_1	87.9 mm
Bearing number	7214 ACD/HCP4A
Preload class B	290 N/micron
Preload class A	223 N/micron
Preload class D	515 N/micron
Preload class C	383 N/micron
G_{ref}	13.701 cm ³
Number of balls z	16
Bore Diameter (mm)	125
r_b max.	0.6 mm
r_a max.	1.5 mm
D_b max.	120.8 mm
D_a max.	116 mm
d_a min.	79 mm

d_b min.	79 mm
Outer Diameter (mm)	70
D_b - max.	120.8 mm
d_b - min.	79 mm
Ball - D_w	15.875 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	0.6 mm
d_a - min.	79 mm
r_a - max.	1.5 mm
D_a - max.	116 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	66.3 kN
Preload class C G_C	1680 N
Preload class B G_B	840 N
Preload class A G_A	420 N
Preload class D G_D	3360 N
Basic dynamic load rating - C	66.3 kN
Preload class B - G_B	840 N
Preload class D - G_D	3360 N
Preload class C - G_C	1680 N
Preload class A - G_A	420 N
Fatigue load limit P_u	2.36 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	19000 mm/min
Calculation factor - Y_0	0.76
Fatigue load limit - P_u	2.4 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	12000 r/min
Basic static load rating C_0	55 kN
Static axial stiffness, preload class B	290 N/ μ m
Attainable speed for grease lubrication	12000 r/min
Static axial stiffness, preload class D	515 N/ μ m
Static axial stiffness, preload class C	383 N/ μ m
Static axial stiffness, preload class A	223 N/ μ m
Basic static load rating -	55 kN

C_0	
Attainable speed for oil-air lubrication	19000 r/min
Reference grease quantity G_{ref}	13.701 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