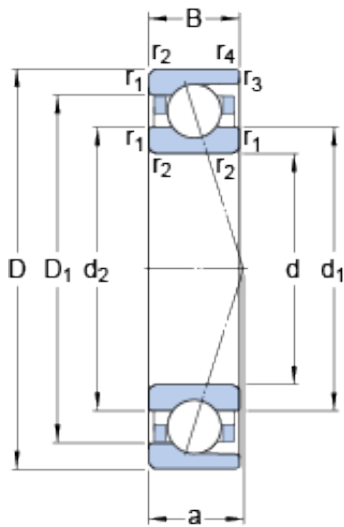




Bearing No. 7221 CD/HCP4A

D	190 mm
d	105 mm
B	36 mm
a	37.9 mm
Ball - z	15
Size (mm)	190x105x36
Width (mm)	36
Mass bearing	3.14 kg
d_n	138.4 mm
d_n	138.4 mm
D_1	163.8 mm
d_1	131.2 mm
d_2	131.2 mm
D_1	163.8 mm
d_2	131.2 mm
d_1	131.2 mm
Bearing number	7221 CD/HCP4A
Preload class A	143 N/micron
G_{ref}	48.333 cm ³
Preload class C	269 N/micron
Preload class D	387 N/micron
Preload class B	193 N/micron
Number of balls z	15
r_b max.	1 mm
r_a max.	2 mm
D_b max.	183 mm
D_a max.	178 mm
d_a min.	117 mm
Bore Diameter (mm)	190

d_b min.	117 mm
Outer Diameter (mm)	105
d_a - min.	117 mm
r_a - max.	2 mm
$r_{1,2}$ min.	2.1 mm
Calculation factor f	1.08
D_b - max.	183 mm
$r_{3,4}$ min.	1.1 mm
D_a - max.	178 mm
Ball - D_w	26.988 mm
r_b - max.	1 mm
d_b - min.	117 mm
$r_{3,4}$ - min.	1.1 mm
$r_{1,2}$ - min.	2.1 mm
Calculation factor - f	1.08
Basic dynamic load rating C	172 kN
Ball diameter D_w	26.988 mm
Preload class C G_C	2600 N
Preload class D G_D	5200 N
Preload class B G_B	1300 N
Preload class A G_A	650 N
Basic dynamic load rating - C	172 kN
Preload class D - G_D	5200 N
Preload class C - G_C	2600 N
Preload class B - G_B	1300 N
Preload class A - G_A	650 N
Calculation factor f_1	1
Calculation factor f_0	14.5
Fatigue load limit P_u	5.3 kN
Calculation factor f_{HC}	1.01

Calculation factor f_{2D}	1.06
Calculation factor f_{2C}	1.03
Calculation factor f_{2B}	1.01
Calculation factor f_{2A}	1
Calculation factor - f	1
Fatigue load limit - P_u	5.3 kN
Limiting speed for oil lubrication	14000 mm/min
Calculation factor - f_0	14.5
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2D}	1.06
Limiting speed for grease lubrication	9000 r/min
Basic static load rating C_0	153 kN
Static axial stiffness, preload class D	387 N/ μ m
Static axial stiffness, preload class B	193 N/ μ m
Static axial stiffness, preload class A	143 N/ μ m
Attainable speed for grease lubrication	9000 r/min
Static axial stiffness, preload class C	269 N/ μ m
Basic static load rating - C_0	153 kN
Attainable speed for oil-air lubrication	14000 r/min
Reference grease quantity G_{ref}	48.333 cm ³

