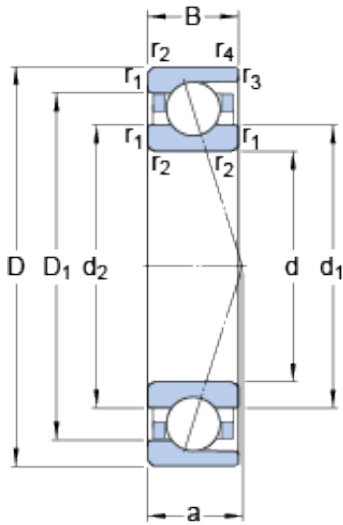




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7213 CD/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 7213 CD/HCP4A



7213 CD/HCP4A Bearing 2D drawings and 3D CAD models

Size	120x65x23 mm
Bore Diameter	120 mm
Outer Diameter	65 mm
Width	23 mm
d	65 mm
D	120 mm
B	23 mm
d ₁	82.9 mm
d ₂	82.9 mm
D ₁	102.1 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	0.6 mm
a	24 mm
d _a - min.	74 mm
d _b - min.	74 mm
D _a - max.	111 mm
D _b - max.	115.8 mm
r _a - max.	1.5 mm
r _b - max.	0.6 mm
d _n	86.6 mm
Basic dynamic load rating - C	66.3 kN
Basic static load rating - C ₀	53 kN
Fatigue load limit - P _u	2.3 kN
Limiting speed for grease	15000 r/min



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Lubrication	
Limiting speed for oil lubrication	22000 mm/min
Ball - D_w	15.875 mm
Ball - z	15
G_{ref}	12.471 cm ³
Calculation factor - f_0	14.6
Preload class A - G_A	250 N
Preload class B - G_B	500 N
Preload class C - G_C	1000 N
Preload class D - G_D	2000 N
Calculation factor - f	1.07
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.06
Calculation factor - f_{HC}	1.01
Preload class A	87 N/micron
Preload class B	118 N/micron
Preload class C	164 N/micron
Preload class D	236 N/micron
d_1	82.9 mm
d_2	82.9 mm
D_1	102.1 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	74 mm
d_b min.	74 mm
D_a max.	111 mm



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D_b max.	115.8 mm
r_a max.	1.5 mm
r_b max.	0.6 mm
d_n	86.6 mm
Basic dynamic load rating C	66.3 kN
Basic static load rating C_0	53 kN
Fatigue load limit P_u	2.28 kN
Attainable speed for grease lubrication	15000 r/min
Attainable speed for oil-air lubrication	22000 r/min
Ball diameter D_w	15.875 mm
Number of balls z	15
Reference grease quantity G_{ref}	12.471 cm ³
Preload class A G_A	250 N
Static axial stiffness, preload class A	87 N/ μ m
Preload class B G_B	500 N
Static axial stiffness, preload class B	118 N/ μ m
Preload class C G_C	1000 N
Static axial stiffness, preload class C	164 N/ μ m
Preload class D G_D	2000 N
Static axial stiffness, preload class D	236 N/ μ m
Calculation factor f	1.07
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.03
Calculation factor f_{2D}	1.06
Calculation factor f_{HC}	1.01



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Calculation factor f_0	14.6
Mass bearing	0.88 kg