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71944 CD/HCP4A Bearing 2D drawings and 3D CAD models

220 mm x 300 mm x 38 mm SKF 71944 CD/HCP4A angular contact ball bearings

Bearing No. 71944 CD/HCP4A

Size	300x220x38 mm
Bore Diameter	300 mm
Outer Diameter	220 mm
Width	38 mm
d	220 mm
D	300 mm
B	38 mm
d ₁	244.7 mm
d ₂	244.7 mm
D ₁	275.3 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1 mm
a	54 mm
d _a - min.	231 mm
d _b - min.	231 mm
D _a - max.	289 mm
D _b - max.	295 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	251.4 mm
Basic dynamic load rating - C	221 kN
Basic static load rating - C ₀	300 kN
Fatigue load limit - P _u	7.8 kN
Limiting speed for grease	5300 r/min



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Lubrication	
Limiting speed for oil lubrication	7500 mm/min
Ball - D_w	25.4 mm
Ball - z	29
G_{ref}	84 cm ³
Calculation factor - f_0	16.5
Preload class A - G_A	850 N
Preload class B - G_B	1700 N
Preload class C - G_C	3400 N
Preload class D - G_D	6800 N
Calculation factor - f	1.28
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.07
Calculation factor - f_{2C}	1.12
Calculation factor - f_{2D}	1.18
Calculation factor - f_{HC}	1.04
Preload class A	248 N/micron
Preload class B	340 N/micron
Preload class C	481 N/micron
Preload class D	705 N/micron
d_1	244.7 mm
d_2	244.7 mm
D_1	275.3 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1 mm
d_a min.	231 mm
d_b min.	231 mm
D_a max.	289 mm



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D_b max.	295 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	251.4 mm
Basic dynamic load rating C	221 kN
Basic static load rating C_0	300 kN
Fatigue load limit P_u	7.8 kN
Attainable speed for grease lubrication	5300 r/min
Attainable speed for oil-air lubrication	7500 r/min
Ball diameter D_w	25.4 mm
Number of balls z	29
Reference grease quantity G_{ref}	84 cm ³
Preload class A G_A	850 N
Static axial stiffness, preload class A	248 N/ μ m
Preload class B G_B	1700 N
Static axial stiffness, preload class B	340 N/ μ m
Preload class C G_C	3400 N
Static axial stiffness, preload class C	481 N/ μ m
Preload class D G_D	6800 N
Static axial stiffness, preload class D	705 N/ μ m
Calculation factor f	1.28
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.07
Calculation factor f_{2C}	1.12
Calculation factor f_{2D}	1.18
Calculation factor f_{HC}	1.04



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Calculation factor f_0	16.5
Mass bearing	5.56 kg