



AURORA Bearing Supply Co., Ltd.



71924 CD/HCP4A Bearing 2D drawings and 3D CAD models

120 mm x 165 mm x 22 mm SKF 71924 CD/HCP4A angular contact ball bearings

Bearing No. 71924 CD/HCP4A

Size	165x120x22 mm
Bore Diameter	120 mm
Outer Diameter	165 mm
Width	22 mm
d	120 mm
D	165 mm
B	22 mm
d ₁	133.9 mm
d ₂	133.9 mm
D ₁	151.1 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	30.2 mm
d _a - min.	126 mm
d _b - min.	126 mm
D _a - max.	159 mm
D _b - max.	161 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	137.6 mm
Basic dynamic load rating - C	78 kN
Basic static load rating - C ₀	91.5 kN
Fatigue load limit - P _u	3.2 kN
Limiting speed for grease	9000 r/min



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Lubrication	
Limiting speed for oil lubrication	14000 mm/min
Ball - D_w	14.288 mm
Ball - z	28
G_{ref}	15.3 cm ³
Calculation factor - f_0	16.5
Preload class A - G_A	290 N
Preload class B - G_B	580 N
Preload class C - G_C	1160 N
Preload class D - G_D	2320 N
Calculation factor - f	1.26
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	141 N/micron
Preload class B	193 N/micron
Preload class C	273 N/micron
Preload class D	401 N/micron
d_1	133.9 mm
d_2	133.9 mm
D_1	151.1 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	126 mm
d_b min.	126 mm
D_a max.	159 mm



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D_b max.	161 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	137.6 mm
Basic dynamic load rating C	78 kN
Basic static load rating C_0	91.5 kN
Fatigue load limit P_u	3.25 kN
Attainable speed for grease lubrication	9000 r/min
Attainable speed for oil-air lubrication	14000 r/min
Ball diameter D_w	14.288 mm
Number of balls z	28
Reference grease quantity G_{ref}	15.3 cm ³
Preload class A G_A	290 N
Static axial stiffness, preload class A	141 N/ μ m
Preload class B G_B	580 N
Static axial stiffness, preload class B	193 N/ μ m
Preload class C G_C	1160 N
Static axial stiffness, preload class C	273 N/ μ m
Preload class D G_D	2320 N
Static axial stiffness, preload class D	401 N/ μ m
Calculation factor f	1.26
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	0.99 kg