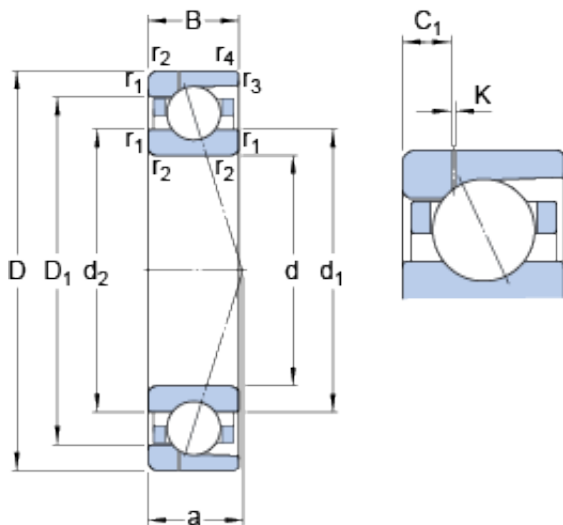




BEARING CORP.OF AMERICA



140 mm x 210 mm x 33 mm SKF 7028
CD/HCP4AH1 angular contact ball bearings

Bearing No. 7028 CD/HCP4AH1

7028 CD/HCP4AH1 Bearing 2D drawings and 3D CAD models

Size	210x140x33 mm
Bore Diameter	210 mm
Outer Diameter	140 mm
Width	33 mm
d	140 mm
D	210 mm
B	33 mm
d ₁	161.6 mm
d ₂	161.6 mm
D ₁	188.4 mm
K	0.5 mm
C ₁	8.9 mm
r _{1,2} - min.	2 mm
r _{3,4} - min.	1 mm
a	40.1 mm
d _a - min.	149 mm
d _b - min.	149 mm
D _a - max.	201 mm
D _b - max.	205 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	166.3 mm
Basic dynamic load rating - C	153 kN
Basic static load rating - C ₀	166 kN



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Fatigue load limit - P_u	5.3 kN
Limiting speed for grease lubrication	7500 r/min
Limiting speed for oil lubrication	12000 mm/min
Ball - D_w	22.225 mm
Ball - z	22
G_{ref}	45 cm ³
Calculation factor - f_0	15.8
Preload class A - G_A	570 N
Preload class B - G_B	1140 N
Preload class C - G_C	2280 N
Preload class D - G_D	4560 N
Calculation factor - f	1.16
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1.02
Preload class A	168 N/micron
Preload class B	228 N/micron
Preload class C	320 N/micron
Preload class D	464 N/micron
d_1	161.6 mm
d_2	161.6 mm
D_1	188.4 mm
C_1	8.9 mm
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
d_a min.	149 mm



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d_b min.	149 mm
D_a max.	201 mm
D_b max.	205 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	166.3 mm
Basic dynamic load rating C	153 kN
Basic static load rating C_0	166 kN
Fatigue load limit P_u	5.3 kN
Attainable speed for grease lubrication	7500 r/min
Attainable speed for oil-air lubrication	12000 r/min
Ball diameter D_w	22.225 mm
Number of balls z	22
Reference grease quantity G_{ref}	45 cm ³
Preload class A G_A	570 N
Static axial stiffness, preload class A	168 N/ μ m
Preload class B G_B	1140 N
Static axial stiffness, preload class B	228 N/ μ m
Preload class C G_C	2280 N
Static axial stiffness, preload class C	320 N/ μ m
Preload class D G_D	4560 N
Static axial stiffness, preload class D	464 N/ μ m
Calculation factor f	1.16
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05



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Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1.02
Calculation factor f_0	15.8
Mass bearing	2.83 kg