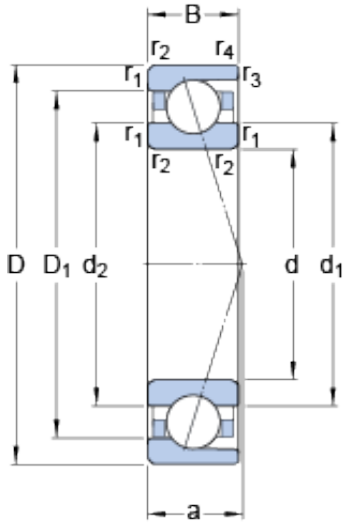




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71940 CD/HCP4A Bearing 2D drawings and 3D CAD models

200 mm x 280 mm x 38 mm SKF 71940 CD/HCP4A duplex angular contact ball bearings

Bearing No. 71940 CD/HCP4A

Size	280x200x38 mm
Bore Diameter	280 mm
Outer Diameter	200 mm
Width	38 mm
d	200 mm
D	280 mm
B	38 mm
d ₁	224.7 mm
d ₂	224.7 mm
D ₁	255.3 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1 mm
a	51.3 mm
d _a - min.	209 mm
d _b - min.	209 mm
D _a - max.	271 mm
D _b - max.	275 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	231.4 mm
Basic dynamic load rating - C	208 kN
Basic static load rating - C ₀	265 kN
Fatigue load limit - P _u	7.2 kN
Limiting speed for grease	6000 r/min



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Lubrication	
Limiting speed for oil lubrication	8500 mm/min
Ball - D_w	25.4 mm
Ball - z	26
G_{ref}	81 cm ³
Calculation factor - f_0	16.3
Preload class A - G_A	800 N
Preload class B - G_B	1600 N
Preload class C - G_C	3200 N
Preload class D - G_D	6400 N
Calculation factor - f	1.23
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	224 N/micron
Preload class B	305 N/micron
Preload class C	430 N/micron
Preload class D	627 N/micron
d_1	224.7 mm
d_2	224.7 mm
D_1	255.3 mm
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1 mm
d_a min.	209 mm
d_b min.	209 mm
D_a max.	271 mm



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D_b max.	275 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	231.4 mm
Basic dynamic load rating C	208 kN
Basic static load rating C_0	265 kN
Fatigue load limit P_u	7.2 kN
Attainable speed for grease lubrication	6000 r/min
Attainable speed for oil-air lubrication	8500 r/min
Ball diameter D_w	25.4 mm
Number of balls z	26
Reference grease quantity G_{ref}	81 cm ³
Preload class A G_A	800 N
Static axial stiffness, preload class A	224 N/ μ m
Preload class B G_B	1600 N
Static axial stiffness, preload class B	305 N/ μ m
Preload class C G_C	3200 N
Static axial stiffness, preload class C	430 N/ μ m
Preload class D G_D	6400 N
Static axial stiffness, preload class D	627 N/ μ m
Calculation factor f	1.23
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	16.3
Mass bearing	5.11 kg