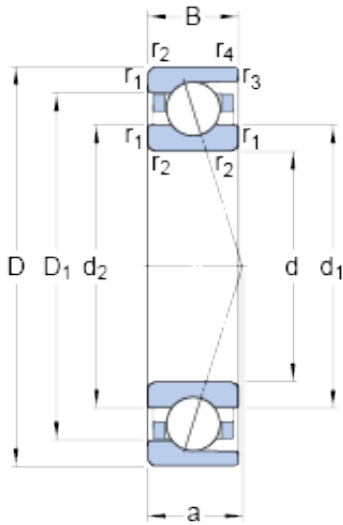




Bearing de Mexico, S.A.

7 mm x 22 mm x 7 mm SKF 727 CD/HCP4A
angular contact ball bearings

Bearing No. 727 CD/HCP4A



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

Size	22x7x7 mm
Bore Diameter	22 mm
Outer Diameter	7 mm
Width	7 mm
d	7 mm
D	22 mm
B	7 mm
d ₁	12.6 mm
d ₂	12.6 mm
D ₁	17.4 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.2 mm
a	5.5 mm
d _a - min.	9.4 mm
d _b - min.	9.4 mm
D _a - max.	19.6 mm
D _b - max.	20.2 mm
r _a - max.	0.3 mm
r _b - max.	0.2 mm
d _n	13.6 mm
Basic dynamic load rating - C	3 kN
Basic static load rating - C ₀	1.2 kN
Fatigue load limit - P _u	0.049 kN
Limiting speed for grease	95000 r/min



Bearing de Mexico, S.A.

Lubrication	
Limiting speed for oil lubrication	150000 mm/min
Ball - D_w	3.969 mm
Ball - z	9
G_{ref}	0.162 cm ³
Calculation factor - f_0	8.4
Preload class A - G_A	12 N
Preload class B - G_B	24 N
Preload class C - G_C	48 N
Preload class D - G_D	96 N
Calculation factor - f	1.02
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	13 N/micron
Preload class B	17 N/micron
Preload class C	23 N/micron
Preload class D	33 N/micron
d_1	12.6 mm
d_2	12.6 mm
D_1	17.4 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a min.	9.4 mm
d_b min.	9.4 mm
D_a max.	19.6 mm



Bearing de Mexico, S.A.

D_b max.	20.2 mm
r_a max.	0.3 mm
r_b max.	0.2 mm
d_n	13.6 mm
Basic dynamic load rating C	2.96 kN
Basic static load rating C_0	1.16 kN
Fatigue load limit P_u	0.049 kN
Attainable speed for grease lubrication	95000 r/min
Attainable speed for oil-air lubrication	150000 r/min
Ball diameter D_w	3.969 mm
Number of balls z	9
Reference grease quantity G_{ref}	0.162 cm ³
Preload class A G_A	12 N
Static axial stiffness, preload class A	13 N/ μ m
Preload class B G_B	24 N
Static axial stiffness, preload class B	17 N/ μ m
Preload class C G_C	48 N
Static axial stiffness, preload class C	23 N/ μ m
Preload class D G_D	96 N
Static axial stiffness, preload class D	33 N/ μ m
Calculation factor f	1.02
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



Bearing de Mexico, S.A.

Calculation factor f_0	8.4
Mass bearing	0.012 kg