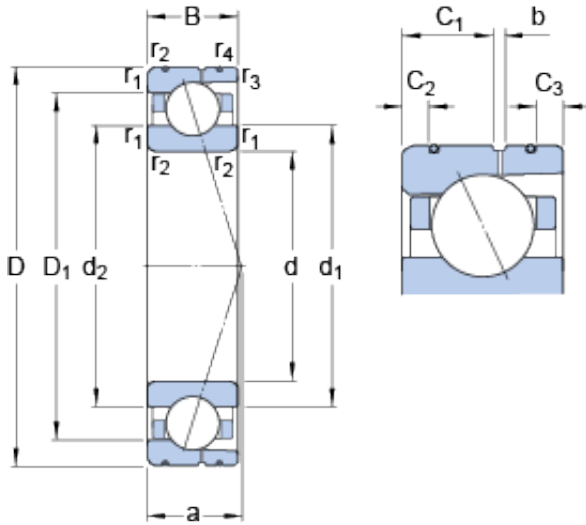




BEARING PRECISION AXLE CORP.



71912 CD/P4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 71912 CD/P4AL

71912 CD/P4AL Bearing 2D drawings and 3D CAD models

Size	60x85x13 mm
Bore Diameter	60 mm
Outer Diameter	85 mm
Width	13 mm
d	60 mm
D	85 mm
B	13 mm
d ₁	67.7 mm
d ₂	67.7 mm
D ₁	77.3 mm
b	2.2 mm
C ₁	6.5 mm
C ₂	3.2 mm
C ₃	2 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	16.3 mm
d _a - min.	64.6 mm
d _b - min.	64.6 mm
D _a - max.	80.4 mm
D _b - max.	83 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	69.7 mm



BEARING PRECISION AXLE CORP.

Basic dynamic load rating - C	19.9 kN
Basic static load rating - C ₀	15.3 kN
Fatigue load limit - P _u	0.655 kN
Limiting speed for grease lubrication	15000 r/min
Limiting speed for oil lubrication	24000 mm/min
Ball - D _w	7.938 mm
Ball - z	24
G _{ref}	2.7 cm ³
Calculation factor - f ₀	10.5
Preload class A - G _A	70 N
Preload class B - G _B	140 N
Preload class C - G _C	280 N
Preload class D - G _D	560 N
Calculation factor - f	1.17
Calculation factor - f	1
Calculation factor - f _{2A}	1
Calculation factor - f _{2B}	1.04
Calculation factor - f _{2C}	1.09
Calculation factor - f _{2D}	1.15
Calculation factor - f _{HC}	1
Preload class A	50 N/micron
Preload class B	67 N/micron
Preload class C	92 N/micron
Preload class D	130 N/micron
d ₁	67.7 mm
d ₂	67.7 mm
D ₁	77.3 mm
C ₁	6.5 mm



BEARING PRECISION AXLE CORP.

C_2	3.2 mm
C_3	2 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a min.	64.6 mm
d_b min.	64.6 mm
D_a max.	80.4 mm
D_b max.	83 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	69.7 mm
Basic dynamic load rating C	19.9 kN
Basic static load rating C_0	15.3 kN
Fatigue load limit P_u	0.655 kN
Attainable speed for grease lubrication	15000 r/min
Attainable speed for oil-air lubrication	24000 r/min
Ball diameter D_w	7.938 mm
Number of balls z	24
Reference grease quantity G_{ref}	2.7 cm ³
Preload class A G_A	70 N
Static axial stiffness, preload class A	50 N/ μ m
Preload class B G_B	140 N
Static axial stiffness, preload class B	67 N/ μ m
Preload class C G_C	280 N
Static axial stiffness, preload class C	92 N/ μ m
Preload class D G_D	560 N
Static axial stiffness, preload class D	130 N/ μ m



BEARING PRECISION AXLE CORP.

Calculation factor f	1.17
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.04
Calculation factor f_{2C}	1.09
Calculation factor f_{2D}	1.15
Calculation factor f_{HC}	1
Calculation factor f_0	10.5
Mass bearing	0.19 kg