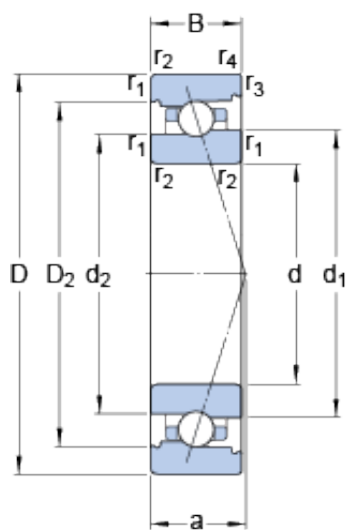




Bearing No. 7024 CB/HCP4A

D	180 mm
d	120 mm
B	28 mm
a	34.2 mm
Ball - z	33
Size (mm)	180x120x28
Width (mm)	28
Mass bearing	2.24 kg
d _n	144.7 mm
d _n	144.7 mm
D ₂	161.9 mm
d ₁	143.2 mm
d ₂	140.8 mm
D ₂	161.9 mm
d ₂	140.8 mm
d ₁	143.2 mm
Bearing number	7024 CB/HCP4A
Preload class A	84 N/micron
Preload class B	110 N/micron
Preload class C	173 N/micron
G _{ref}	23.69 cm3
Number of balls z	33
D _a max.	171 mm
d _a min.	129 mm
d _b min.	129 mm
D _b max.	175.4 mm
r _a max.	2 mm
r _b max.	1 mm
Bore Diameter (mm)	180

Outer Diameter (mm)	120
d_a - min.	129 mm
r_a - max.	2 mm
$r_{1,2}$ min.	2 mm
Calculation factor f	1.08
D_b - max.	175.4 mm
$r_{3,4}$ min.	1 mm
r_b - max.	1 mm
D_a - max.	171 mm
Ball - D_w	11.112 mm
d_b - min.	129 mm
Calculation factor - f	1.08
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2 mm
Basic dynamic load rating C	50.7 kN
Ball diameter D_w	11.112 mm
Preload class B G_B	260 N
Preload class A G_A	130 N
Basic dynamic load rating - C	37.7 kN
Preload class C G_C	780 N
Preload class A - G_A	130 N
Preload class C - G_C	780 N
Preload class B - G_B	260 N
Calculation factor f_1	1
Fatigue load limit P_u	1.34 kN
Calculation factor f_0	9.8
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.01

Calculation factor - f	1
Fatigue load limit - P_u	1.3 kN
Calculation factor - f_0	9.8
Limiting speed for oil lubrication	17000 mm/min
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1.01
Limiting speed for grease lubrication	11000 r/min
Basic static load rating C_0	63 kN
Static axial stiffness, preload class A	84 N/ μ m
Static axial stiffness, preload class B	110 N/ μ m
Static axial stiffness, preload class C	173 N/ μ m
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	17000 r/min
Basic static load rating - C_0	39 kN
Reference grease quantity G_{ref}	23.69 cm ³