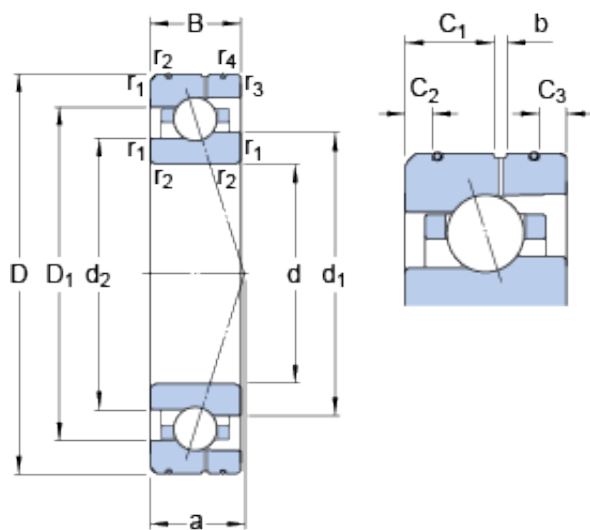




Bearing No. 7024 CE/HCP4AL

b	2.8 mm
d	120 mm
a	34.3 mm
B	28 mm
D	180 mm
Ball - z	29
Size (mm)	180x120x28
Width (mm)	28
Mass bearing	1.96 kg
d_2	137.8 mm
D_1	158.61 mm
d_n	144.9 mm
C_1	15 mm
C_2	5.4 mm
C_3	5.4 mm
C_2	5.4 mm
C_1	15 mm
d_n	144.9 mm
D_1	158.61 mm
d_2	137.8 mm
d_1	141.42 mm
d_1	141.42 mm
C_3	5.4 mm
Bearing number	7024 CE/HCP4AL
Preload class B	182 N/micron
G_{ref}	28 cm3
Preload class C	250 N/micron
Preload class A	115 N/micron
Number of balls z	29

d_a min.	128.8 mm
d_b min.	128.8 mm
D_a max.	171.2 mm
D_b max.	174.4 mm
r_a max.	2 mm
r_b max.	1 mm
Bore Diameter (mm)	180
Outer Diameter (mm)	120
$r_{1,2}$ min.	2 mm
d_a - min.	128.8 mm
d_b - min.	128.8 mm
D_a - max.	171.2 mm
Calculation factor f	1.12
r_b - max.	1 mm
$r_{3,4}$ min.	1 mm
r_a - max.	2 mm
D_b - max.	174.4 mm
Ball - D_w	14.288 mm
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2 mm
Calculation factor - f	1.12
Ball diameter D_w	14.288 mm
Basic dynamic load rating C	57.2 kN
Preload class B G_B	930 N
Preload class C G_C	1850 N
Preload class A G_A	310 N
Basic dynamic load rating - C	57.2 kN
Preload class A - G_A	310 N
Preload class B - G_B	930 N
Preload class C - G_C	1850 N

Calculation factor f_1	1
Calculation factor f_0	9.6
Fatigue load limit P_u	1.9 kN
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.03
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.01
Calculation factor - f_0	9.6
Limiting speed for oil lubrication	17500 mm/min
Fatigue load limit - P_u	1.9 kN
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	11200 r/min
Basic static load rating C_0	55 kN
Static axial stiffness, preload class A	115 N/ μ m
Static axial stiffness, preload class B	182 N/ μ m
Static axial stiffness, preload class C	250 N/ μ m
Attainable speed for grease lubrication	11200 r/min
Basic static load rating - C_0	55 kN
Attainable speed for oil-air lubrication	17500 r/min
Reference grease quantity G_{ref}	28 cm ³

