



Bearing No. 71808 ACD/HCP4

Size	52x40x7 mm
Bore Diameter	52 mm
Outer Diameter	40 mm
Width	7 mm
d	40 mm
D	52 mm
B	7 mm
d ₁	44.1 mm
d ₂	44.1 mm
D ₁	48.1 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	14.3 mm
d _a - min.	42 mm
d _b - min.	42 mm
D _a - max.	50 mm
D _b - max.	51.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	44.5 mm
Basic dynamic load rating - C	4.5 kN
Basic static load rating - C ₀	4.6 kN
Fatigue load limit - P _u	0.196 kN
Limiting speed for grease lubrication	28000 r/min
Limiting speed for oil lubrication	43000 mm/min
Ball - D _w	3.175 mm

Ball - z	29
G_{ref}	0.31 cm ³
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	40 N
Preload class B - G_B	120 N
Preload class C - G_C	240 N
Calculation factor - f	1.23
Calculation factor - f_1	0.97
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.09
Calculation factor - f_{2C}	1.17
Calculation factor - f_{HC}	1.02
Preload class A	93 N/micron
Preload class B	145 N/micron
Preload class C	197 N/micron
d_1	44.1 mm
d_2	44.1 mm
D_1	48.1 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	42 mm
d_b min.	42 mm

D_a max.	50 mm
D_b max.	51.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	44.5 mm
Basic dynamic load rating C	4.49 kN
Basic static load rating C_0	4.55 kN
Fatigue load limit P_u	0.196 kN
Attainable speed for grease lubrication	28000 r/min
Attainable speed for oil-air lubrication	43000 r/min
Ball diameter D_w	3.175 mm
Number of balls z	29
Reference grease quantity G_{ref}	0.31 cm ³
Preload class A G_A	40 N
Static axial stiffness, preload class A	93 N/ μ m
Preload class B G_B	120 N
Static axial stiffness, preload class B	145 N/ μ m
Preload class C G_C	240 N
Static axial stiffness, preload class C	197 N/ μ m
Calculation factor f	1.23
Calculation factor f_1	0.97
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.09
Calculation factor f_{2C}	1.17
Calculation factor f_{HC}	1.02
Calculation factor e	0.68
Calculation factor	0.87

(single, tandem) Y_2	
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back- to-back, face-to-face) Y_1	0.92
Calculation factor (back- to-back, face-to-face) Y_2	1.41
Calculation factor (back- to-back, face-to-face) Y_0	0.76
Calculation factor (back- to-back, face-to-face) X_2	0.67
Mass bearing	0.029 kg