



Bearing No. 71808 CD/HCP4

D	52 mm
d	40 mm
B	7 mm
a	9.7 mm
Ball - z	29
Size (mm)	52x40x7
Width (mm)	7
Mass bearing	0.029 kg
d_n	44.5 mm
d_n	44.5 mm
D_1	48.1 mm
d_1	44.1 mm
d_2	44.1 mm
D_1	48.1 mm
d_2	44.1 mm
d_1	44.1 mm
Bearing number	71808 CD/HCP4
Preload class A	40 N/micron
Preload class B	68 N/micron
Preload class C	100 N/micron
G_{ref}	0.31 cm ³
Number of balls z	29
D_a max.	50 mm
d_a min.	42 mm
d_b min.	42 mm
D_b max.	51.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
Bore Diameter (mm)	52

Outer Diameter (mm)	40
d_a - min.	42 mm
r_a - max.	0.3 mm
$r_{1,2}$ min.	0.3 mm
Calculation factor f	1.23
D_b - max.	51.2 mm
$r_{3,4}$ min.	0.15 mm
r_b - max.	0.15 mm
D_a - max.	50 mm
Ball - D_w	3.175 mm
d_b - min.	42 mm
Calculation factor - f	1.23
$r_{3,4}$ - min.	0.15 mm
$r_{1,2}$ - min.	0.3 mm
Basic dynamic load rating C	4.88 kN
Ball diameter D_w	3.175 mm
Preload class B G_B	78 N
Preload class A G_A	26 N
Basic dynamic load rating - C	4.9 kN
Preload class C G_C	155 N
Preload class A - G_A	26 N
Preload class C - G_C	155 N
Preload class B - G_B	78 N
Calculation factor f_1	1
Fatigue load limit P_u	0.208 kN
Calculation factor f_0	17.2
Calculation factor f_{2C}	1.18
Calculation factor f_{2B}	1.1
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.02

Calculation factor - f	1
Fatigue load limit - P_u	0.208 kN
Calculation factor - f_0	17.2
Limiting speed for oil lubrication	45000 mm/min
Calculation factor - f_{2B}	1.1
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.18
Calculation factor - f_{HC}	1.02
Limiting speed for grease lubrication	30000 r/min
Basic static load rating C_0	4.9 kN
Static axial stiffness, preload class A	40 N/ μ m
Static axial stiffness, preload class B	68 N/ μ m
Static axial stiffness, preload class C	100 N/ μ m
Attainable speed for grease lubrication	30000 r/min
Attainable speed for oil-air lubrication	45000 r/min
Basic static load rating - C_0	4.9 kN
Reference grease quantity G_{ref}	0.31 cm ³