



Bearing No. 71806 ACD/HCP4

D	42 mm
d	30 mm
B	7 mm
a	11.9 mm
Ball - z	23
Size (mm)	42x30x7
Width (mm)	7
Mass bearing	0.024 kg
d_n	34.5 mm
d_n	34.5 mm
D_1	38.1 mm
d_1	34.1 mm
d_2	34.1 mm
D_1	38.1 mm
d_2	34.1 mm
d_1	34.1 mm
Bearing number	71806 ACD/HCP4
Preload class A	76 N/micron
G_{ref}	0.24 cm ³
Preload class C	160 N/micron
Preload class B	117 N/micron
Number of balls z	23
Bore Diameter (mm)	42
r_b max.	0.15 mm
r_a max.	0.3 mm
D_b max.	41.2 mm
D_a max.	40 mm
d_a min.	32 mm
d_b min.	32 mm

Outer Diameter (mm)	30
D_b - max.	41.2 mm
d_a - min.	32 mm
Calculation factor e	0.68
Calculation factor f	1.14
r_b - max.	0.15 mm
D_a - max.	40 mm
r_a - max.	0.3 mm
$r_{3,4}$ min.	0.15 mm
$r_{1,2}$ min.	0.3 mm
Ball - D_w	3.175 mm
d_b - min.	32 mm
$r_{1,2}$ - min.	0.3 mm
$r_{3,4}$ - min.	0.15 mm
Calculation factor - e	0.68
Calculation factor - f	1.14
Basic dynamic load rating C	4.16 kN
Ball diameter D_w	3.175 mm
Preload class B G_B	110 N
Preload class C G_C	220 N
Basic dynamic load rating - C	4.2 kN
Preload class A G_A	37 N
Preload class B - G_B	110 N
Preload class C - G_C	220 N
Preload class A - G_A	37 N
Fatigue load limit P_u	0.15 kN
Calculation factor f_1	0.97
Calculation factor f_{2C}	1.17
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1.02

Calculation factor f_{2B}	1.09
Limiting speed for oil lubrication	53000 mm/min
Fatigue load limit - P_u	0.15 kN
Calculation factor - f_1	0.97
Calculation factor - Y_2	1.41
Calculation factor - X_2	0.67
Calculation factor - Y_1	0.92
Calculation factor - Y_0	0.76
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.17
Calculation factor - f_{2B}	1.09
Limiting speed for grease lubrication	34000 r/min
Basic static load rating C_0	3.55 kN
Static axial stiffness, preload class B	117 N/ μ m
Static axial stiffness, preload class A	76 N/ μ m
Attainable speed for grease lubrication	34000 r/min
Static axial stiffness, preload class C	160 N/ μ m
Basic static load rating - C_0	3.6 kN
Attainable speed for oil-air lubrication	53000 r/min
Reference grease quantity G_{ref}	0.24 cm ³
Calculation factor (single, tandem) Y_2	0.87
Calculation factor	0.38

(single, tandem) Y_0	
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