



Bearing No. 71807 ACD/HCP4

D	47 mm
d	35 mm
B	7 mm
a	13.1 mm
Ball - z	26
Size (mm)	47x35x7
Width (mm)	7
Mass bearing	0.026 kg
d _n	39.5 mm
d _n	39.5 mm
D ₁	43.1 mm
d ₁	39.1 mm
d ₂	39.1 mm
D ₁	43.1 mm
d ₂	39.1 mm
d ₁	39.1 mm
Bearing number	71807 ACD/HCP4
Preload class A	85 N/micron
G _{ref}	0.28 cm ³
Preload class C	179 N/micron
Preload class B	132 N/micron
Number of balls z	26
Bore Diameter (mm)	47
r _b max.	0.15 mm
r _a max.	0.3 mm
D _b max.	46.2 mm
D _a max.	45 mm
d _a min.	37 mm
d _b min.	37 mm

Outer Diameter (mm)	35
D_b - max.	46.2 mm
d_a - min.	37 mm
Calculation factor e	0.68
Calculation factor f	1.18
r_b - max.	0.15 mm
D_a - max.	45 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.	37 mm
$r_{1,2}$ - min.	0.3 mm
$r_{3,4}$ - min.	0.15 mm
Calculation factor - e	0.68
Calculation factor - f	1.18
Basic dynamic load rating C	4.36 kN
Ball diameter D_w	3.175 mm
Preload class B G_B	115 N
Preload class C G_C	230 N
Basic dynamic load rating - C	4.4 kN
Preload class A G_A	39 N
Preload class B - G_B	115 N
Preload class C - G_C	230 N
Preload class A - G_A	39 N
Fatigue load limit P_u	0.173 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	48000 mm/min
Fatigue load limit - P_u	0.173 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	30000 r/min
Basic static load rating C_0	4.05 kN
Static axial stiffness, preload class B	132 N/ μ m
Static axial stiffness, preload class A	85 N/ μ m
Attainable speed for grease lubrication	30000 r/min
Static axial stiffness, preload class C	179 N/ μ m
Basic static load rating - C_0	4 kN
Attainable speed for oil-air lubrication	48000 r/min
Reference grease quantity G_{ref}	0.28 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