



YYH Bearing & Drivetrain Co., Ltd.



35 mm x 47 mm x 7 mm SKF 71807 CD/HCP4 Duplex angular contact ball bearings HT series

Bearing No. 71807 CD/HCP4

71807 CD/HCP4 Bearing 2D drawings and 3D CAD models

Size	47x35x7 mm
Bore Diameter	47 mm
Outer Diameter	35 mm
Width	7 mm
d	35 mm
D	47 mm
B	7 mm
d ₁	39.1 mm
d ₂	39.1 mm
D ₁	43.1 mm
r _{1,2} - min.	0.3 mm
r _{3,4} - min.	0.15 mm
a	9 mm
d _a - min.	37 mm
d _b - min.	37 mm
D _a - max.	45 mm
D _b - max.	46.2 mm
r _a - max.	0.3 mm
r _b - max.	0.15 mm
d _n	39.5 mm
Basic dynamic load rating - C	4.6 kN
Basic static load rating - C ₀	4.3 kN
Fatigue load limit - P _u	0.183 kN
Limiting speed for grease	34000 r/min



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Lubrication	
Limiting speed for oil lubrication	53000 mm/min
Ball - D_w	3.175 mm
Ball - z	26
G_{ref}	0.28 cm ³
Calculation factor - f_0	17
Preload class A - G_A	25 N
Preload class B - G_B	75 N
Preload class C - G_C	150 N
Calculation factor - f	1.18
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.1
Calculation factor - f_{2C}	1.18
Calculation factor - f_{HC}	1.02
Preload class A	36 N/micron
Preload class B	62 N/micron
Preload class C	90 N/micron
d_1	39.1 mm
d_2	39.1 mm
D_1	43.1 mm
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
d_a min.	37 mm
d_b min.	37 mm
D_a max.	45 mm
D_b max.	46.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
d_n	39.5 mm



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Basic dynamic load rating C	4.62 kN
Basic static load rating C_0	4.3 kN
Fatigue load limit P_u	0.183 kN
Attainable speed for grease lubrication	34000 r/min
Attainable speed for oil-air lubrication	53000 r/min
Ball diameter D_w	3.175 mm
Number of balls z	26
Reference grease quantity G_{ref}	0.28 cm ³
Preload class A G_A	25 N
Static axial stiffness, preload class A	36 N/ μ m
Preload class B G_B	75 N
Static axial stiffness, preload class B	62 N/ μ m
Preload class C G_C	150 N
Static axial stiffness, preload class C	90 N/ μ m
Calculation factor f	1.18
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.1
Calculation factor f_{2C}	1.18
Calculation factor f_{HC}	1.02
Calculation factor f_0	17
Mass bearing	0.026 kg