



AMERICAN BEARING MFG.CORP.



95 mm x 120 mm x 13 mm SKF 71819 ACD/HCP4 angular contact ball bearings

Bearing No. 71819 ACD/HCP4

71819 ACD/HCP4 Bearing 2D drawings and 3D CAD models

Size	120x95x13 mm
Bore Diameter	120 mm
Outer Diameter	95 mm
Width	13 mm
d	95 mm
D	120 mm
B	13 mm
d ₁	103.2 mm
d ₂	103.2 mm
D ₁	112.1 mm
r _{1,2} - min.	1 mm
r _{3,4} - min.	0.3 mm
a	31.6 mm
d _a - min.	99.6 mm
d _b - min.	99.6 mm
D _a - max.	115.4 mm
D _b - max.	118 mm
r _a - max.	1 mm
r _b - max.	0.3 mm
d _n	104.1 mm
Basic dynamic load rating - C	20.8 kN
Basic static load rating - C ₀	25.5 kN
Fatigue load limit - P _u	1.1 kN
Limiting speed for grease	11000 r/min



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Lubrication	
Limiting speed for oil lubrication	17000 mm/min
Ball - D_w	7.144 mm
Ball - z	32
G_{ref}	3.1 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	186 N
Preload class B - G_B	560 N
Preload class C - G_C	1120 N
Calculation factor - f	1.36
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	222 N/micron
Preload class B	351 N/micron
Preload class C	484 N/micron
d_1	103.2 mm
d_2	103.2 mm
D_1	112.1 mm
$r_{1,2}$ min.	1 mm



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$r_{3,4}$ min.	0.3 mm
d_a min.	99.6 mm
d_b min.	99.6 mm
D_a max.	115.4 mm
D_b max.	118 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_n	104.1 mm
Basic dynamic load rating C	20.8 kN
Basic static load rating C_0	25.5 kN
Fatigue load limit P_u	1.06 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	17000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	32
Reference grease quantity G_{ref}	3.1 cm ³
Preload class A G_A	186 N
Static axial stiffness, preload class A	222 N/ μ m
Preload class B G_B	560 N
Static axial stiffness, preload class B	351 N/ μ m
Preload class C G_C	1120 N
Static axial stiffness, preload class C	484 N/ μ m
Calculation factor f	1.36
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



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Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
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	0.26 kg