



AURORA Bearing Supply Co., Ltd.



71919 CB/HCP4A Bearing 2D drawings and 3D CAD models

95 mm x 130 mm x 18 mm SKF 71919 CB/HCP4A angular contact ball bearings

Bearing No. 71919 CB/HCP4A

Size	130x95x18 mm
Bore Diameter	130 mm
Outer Diameter	95 mm
Width	18 mm
d	95 mm
D	130 mm
B	18 mm
d ₁	107.94 mm
d ₂	106.36 mm
D ₂	120.7 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	28.2 mm
d _a - min.	101 mm
d _b - min.	101 mm
D _a - max.	124 mm
D _b - max.	126.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	109 mm
Basic dynamic load rating - C	18.2 kN
Basic static load rating - C ₀	18.6 kN
Fatigue load limit - P _u	0.75 kN
Limiting speed for grease	16000 r/min



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Lubrication	
Limiting speed for oil lubrication	24000 mm/min
Ball - D_w	7.144 mm
Ball - z	38
G_{ref}	7.5 cm ³
Calculation factor - f_0	10
Preload class A - G_A	60 N
Preload class B - G_B	120 N
Preload class C - G_C	360 N
Calculation factor - f	1.13
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.08
Calculation factor - f_{HC}	1.01
Preload class A	62 N/micron
Preload class B	82 N/micron
Preload class C	130 N/micron
d_1	107.94 mm
d_2	106.36 mm
D_2	120.7 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	101 mm
d_b min.	101 mm
D_a max.	124 mm
D_b max.	126.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	109 mm



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Basic dynamic load rating C	24.7 kN
Basic static load rating C_0	30 kN
Fatigue load limit P_u	0.75 kN
Attainable speed for grease lubrication	16000 r/min
Attainable speed for oil-air lubrication	24000 r/min
Ball diameter D_w	7.144 mm
Number of balls z	38
Reference grease quantity G_{ref}	7.5 cm ³
Preload class A G_A	60 N
Static axial stiffness, preload class A	62 N/ μ m
Preload class B G_B	120 N
Static axial stiffness, preload class B	82 N/ μ m
Preload class C G_C	360 N
Static axial stiffness, preload class C	130 N/ μ m
Calculation factor f	1.13
Calculation factor f_1	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2C}	1.08
Calculation factor f_{HC}	1.01
Calculation factor f_0	10
Mass bearing	0.58 kg