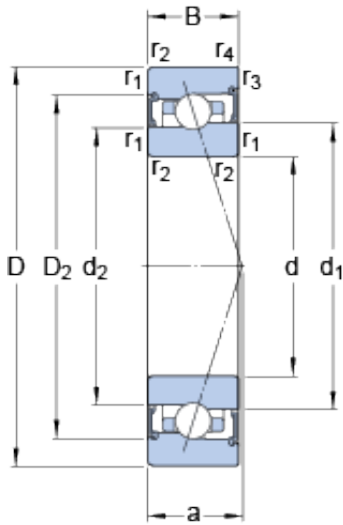




Stainless steel bearing equipment Co....



S7019 ACB/HCP4A Bearing 2D drawings and 3D CAD models

95 mm x 145 mm x 24 mm SKF S7019 ACB/HCP4A angular contact ball bearings

Bearing No. S7019 ACB/HCP4A

Size	145x95x24 mm
Bore Diameter	145 mm
Outer Diameter	95 mm
Width	24 mm
d	95 mm
D	145 mm
B	24 mm
d ₁	113.7 mm
d ₂	111.15 mm
D ₂	130 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	1 mm
a	40.2 mm
d _a - min.	102 mm
d _a - max.	112.9 mm
d _b - min.	102 mm
d _b - max.	110.4 mm
D _a - max.	138 mm
D _b - max.	140.4 mm
r _a - max.	1.5 mm
r _b - max.	1 mm
Basic dynamic load rating - C	27.6 kN
Basic static load rating - C ₀	24.5 kN
Fatigue load limit - P _u	0.95 kN



Stainless steel bearing equipment Co....

Limiting speed for grease lubrication	13000 r/min
Ball - D_w	10.319 mm
Ball - z	26
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	165 N
Preload class B - G_B	330 N
Preload class C - G_C	990 N
Calculation factor - f	1.07
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1.01
Preload class A	165 N/micron
Preload class B	211 N/micron
Preload class C	318 N/micron
d_1	113.7 mm
d_2	111.15 mm
D_2	130 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1 mm
d_a min.	102 mm



Stainless steel bearing equipment Co....

d_a max.	112.9 mm
d_b min.	102 mm
d_b max.	110.4 mm
D_a max.	138 mm
D_b max.	140.4 mm
r_a max.	1.5 mm
r_b max.	1 mm
Basic dynamic load rating C	35.8 kN
Basic static load rating C_0	41.5 kN
Fatigue load limit P_u	0.95 kN
Attainable speed for grease lubrication	13000 r/min
Ball diameter D_w	10.319 mm
Number of balls z	26
Preload class A G_A	165 N
Static axial stiffness, preload class A	165 N/ μ m
Preload class B G_B	330 N
Static axial stiffness, preload class B	211 N/ μ m
Preload class C G_C	990 N
Static axial stiffness, preload class C	318 N/ μ m
Calculation factor f	1.07
Calculation factor f_1	0.99
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1.01
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38



Stainless steel bearing equipment Co....

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	1.23 kg