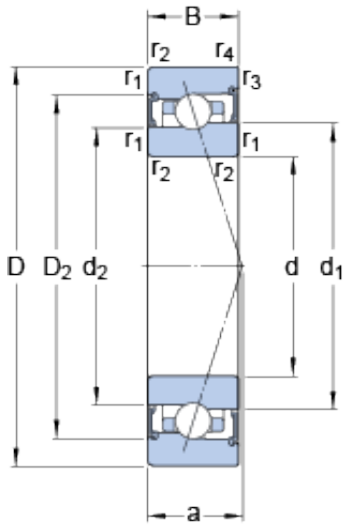




# NTN DRIVESHAFT ANDERSON, INC.



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

Bearing No. S7019 ACB/HCP4A

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

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



## NTN DRIVESHAFT ANDERSON, INC.

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



## NTN DRIVESHAFT ANDERSON, INC.

$d_a$ 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/ $\mu$ m
Preload class B $G_B$	330 N
Static axial stiffness, preload class B	211 N/ $\mu$ m
Preload class C $G_C$	990 N
Static axial stiffness, preload class C	318 N/ $\mu$ 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



## NTN DRIVESHAFT ANDERSON, INC.

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