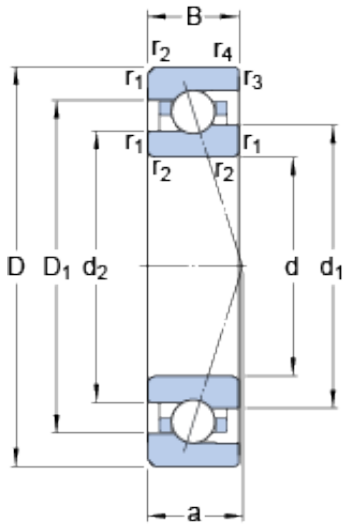




# NTN BEARUNG DRIVESHAFT,INC.



706 ACE/P4A Bearing 2D drawings and 3D CAD models

6 mm x 17 mm x 6 mm SKF 706 ACE/P4A  
angular contact ball bearings

Bearing No. 706 ACE/P4A

Size	17x6x6 mm
Bore Diameter	17 mm
Outer Diameter	6 mm
Width	6 mm
d	6 mm
D	17 mm
B	6 mm
d <sub>1</sub>	9.2 mm
d <sub>2</sub>	8.7 mm
D <sub>1</sub>	13.9 mm
r <sub>1,2</sub> - min.	0.3 mm
r <sub>3,4</sub> - min.	0.15 mm
a	5.8 mm
d <sub>a</sub> - min.	8 mm
d <sub>b</sub> - min.	8 mm
D <sub>a</sub> - max.	15 mm
D <sub>b</sub> - max.	15.6 mm
r <sub>a</sub> - max.	0.3 mm
r <sub>b</sub> - max.	0.15 mm
d <sub>n</sub>	10.1 mm
Basic dynamic load rating - C	1.5 kN
Basic static load rating - C <sub>0</sub>	0.49 kN
Fatigue load limit - P <sub>u</sub>	0.02 kN
Limiting speed for grease	127000 r/min



## NTN BEARUNG DRIVESHAFT, INC.

Lubrication	
Limiting speed for oil lubrication	195000 mm/min
Ball - $D_w$	3.175 mm
Ball - $z$	8
$G_{ref}$	0.09 cm <sup>3</sup>
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 - $G_A$	14 N
Preload class B - $G_B$	41 N
Preload class C - $G_C$	82 N
Calculation factor - $f$	1.02
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2C}$	1.06
Calculation factor - $f_{HC}$	1
Preload class A	19 N/micron
Preload class B	28 N/micron
Preload class C	37 N/micron
$d_1$	9.2 mm
$d_2$	8.7 mm
$D_1$	13.9 mm
$r_{1,2}$ min.	0.3 mm



## NTN BEARUNG DRIVESHAFT, INC.

$r_{3,4}$ min.	0.15 mm
$d_a$ min.	8 mm
$d_b$ min.	8 mm
$D_a$ max.	15 mm
$D_b$ max.	15.6 mm
$r_a$ max.	0.3 mm
$r_b$ max.	0.15 mm
$d_n$	10.1 mm
Basic dynamic load rating C	1.51 kN
Basic static load rating $C_0$	0.49 kN
Fatigue load limit $P_u$	0.02 kN
Attainable speed for grease lubrication	127000 r/min
Attainable speed for oil-air lubrication	195000 r/min
Ball diameter $D_w$	3.175 mm
Number of balls z	8
Reference grease quantity $G_{ref}$	0.09 cm <sup>3</sup>
Preload class A $G_A$	14 N
Static axial stiffness, preload class A	19 N/ $\mu$ m
Preload class B $G_B$	41 N
Static axial stiffness, preload class B	28 N/ $\mu$ m
Preload class C $G_C$	82 N
Static axial stiffness, preload class C	37 N/ $\mu$ m
Calculation factor f	1.02
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.06
Calculation factor $f_{HC}$	1



## NTN BEARUNG DRIVESHAFT, INC.

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	0.006 kg