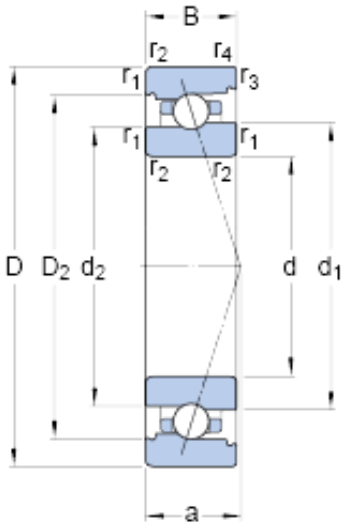




# NTN Bearing Rolamentos do Brasil Ltda.



## 40 mm x 68 mm x 15 mm skf 7008 ACB/P4A Super-precision Angular contact ball bearings

Bearing No. 7008 ACB/P4A

7008 ACB/P4A Bearing 2D drawings and 3D CAD models

Size	68x40x15 mm
Bore Diameter	68 mm
Outer Diameter	40 mm
Width	15 mm
d	40 mm
D	68 mm
B	15 mm
d <sub>1</sub>	50.95 mm
d <sub>2</sub>	49.87 mm
D <sub>2</sub>	58.88 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	20.2 mm
d <sub>a</sub> - min.	44.6 mm
d <sub>b</sub> - min.	44.6 mm
D <sub>a</sub> - max.	63.4 mm
D <sub>b</sub> - max.	64.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	51.6 mm
Basic dynamic load rating - C	6.9 kN
Basic static load rating - C <sub>0</sub>	5.3 kN
Fatigue load limit - P <sub>u</sub>	0.224 kN
Limiting speed for grease	26000 r/min



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Lubrication	
Limiting speed for oil lubrication	40000 mm/min
Ball - $D_w$	4.762 mm
Ball - $z$	26
$G_{ref}$	2.22 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 - $G_A$	41 N
Preload class B - $G_B$	82 N
Preload class C - $G_C$	245 N
Calculation factor - $f$	1.04
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.01
Calculation factor - $f_{2C}$	1.04
Calculation factor - $f_{HC}$	1
Preload class A	71 N/micron
Preload class B	92 N/micron
Preload class C	138 N/micron
$d_1$	50.95 mm
$d_2$	49.87 mm
$D_2$	58.88 mm
$r_{1,2}$ min.	1 mm



## NTN Bearing Rolamentos do Brasil Ltda.

$r_{3,4}$ min.	0.6 mm
$d_a$ min.	44.6 mm
$d_b$ min.	44.6 mm
$D_a$ max.	63.4 mm
$D_b$ max.	64.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	51.6 mm
Basic dynamic load rating C	9.36 kN
Basic static load rating $C_0$	8.65 kN
Fatigue load limit $P_u$	0.224 kN
Attainable speed for grease lubrication	26000 r/min
Attainable speed for oil-air lubrication	40000 r/min
Ball diameter $D_w$	4.762 mm
Number of balls z	26
Reference grease quantity $G_{ref}$	2.22 cm <sup>3</sup>
Preload class A $G_A$	41 N
Static axial stiffness, preload class A	71 N/ $\mu$ m
Preload class B $G_B$	82 N
Static axial stiffness, preload class B	92 N/ $\mu$ m
Preload class C $G_C$	245 N
Static axial stiffness, preload class C	138 N/ $\mu$ m
Calculation factor f	1.04
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.01
Calculation factor $f_{2C}$	1.04
Calculation factor $f_{HC}$	1



## NTN Bearing Rolamentos do Brasil Ltda.

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	0.21 kg