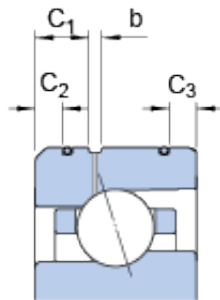
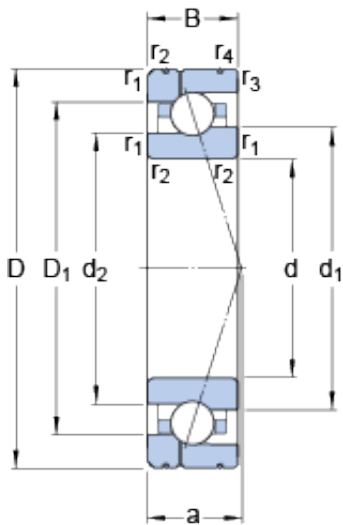




# AMERICAN NTN BEARING LTD



40 mm x 68 mm x 15 mm SKF 7008 CE/P4AL1  
angular contact ball bearings

Bearing No. 7008 CE/P4AL1

7008 CE/P4AL1 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>	49.7 mm
d <sub>2</sub>	47.6 mm
D <sub>1</sub>	58.25 mm
b	1.4 mm
C <sub>1</sub>	4.5 mm
C <sub>2</sub>	2.5 mm
C <sub>3</sub>	3 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	14.8 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.	63.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	51.6 mm



## AMERICAN NTN BEARING LTD

Basic dynamic load rating - C	12.4 kN
Basic static load rating - C <sub>0</sub>	7.6 kN
Fatigue load limit - P <sub>u</sub>	0.32 kN
Limiting speed for grease lubrication	30000 r/min
Limiting speed for oil lubrication	45000 mm/min
Ball - D <sub>w</sub>	7.144 mm
Ball - z	19
G <sub>ref</sub>	2.8 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	8.1
Preload class A - G <sub>A</sub>	65 N
Preload class B - G <sub>B</sub>	200 N
Preload class C - G <sub>C</sub>	390 N
Calculation factor - f	1.06
Calculation factor - f	1
Calculation factor - f <sub>2A</sub>	1
Calculation factor - f <sub>2B</sub>	1.03
Calculation factor - f <sub>2C</sub>	1.05
Calculation factor - f <sub>HC</sub>	1
Preload class A	34 N/micron
Preload class B	54 N/micron
Preload class C	73 N/micron
d <sub>1</sub>	49.7 mm
d <sub>2</sub>	47.6 mm
D <sub>1</sub>	58.25 mm
C <sub>1</sub>	4.5 mm
C <sub>2</sub>	2.5 mm
C <sub>3</sub>	3 mm
r <sub>1,2</sub> min.	1 mm



## AMERICAN NTN BEARING LTD

$r_{3,4}$ 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.	63.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	51.6 mm
Basic dynamic load rating C	12.4 kN
Basic static load rating $C_0$	7.65 kN
Fatigue load limit $P_u$	0.32 kN
Attainable speed for grease lubrication	30000 r/min
Attainable speed for oil-air lubrication	45000 r/min
Ball diameter $D_w$	7.144 mm
Number of balls z	19
Reference grease quantity $G_{ref}$	2.8 cm <sup>3</sup>
Preload class A $G_A$	65 N
Static axial stiffness, preload class A	34 N/ $\mu$ m
Preload class B $G_B$	200 N
Static axial stiffness, preload class B	54 N/ $\mu$ m
Preload class C $G_C$	390 N
Static axial stiffness, preload class C	73 N/ $\mu$ m
Calculation factor f	1.06
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.03
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{HC}$	1



## AMERICAN NTN BEARING LTD

Calculation factor $f_0$	8.1
Mass bearing	0.19 kg