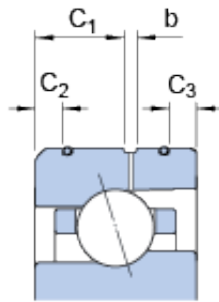
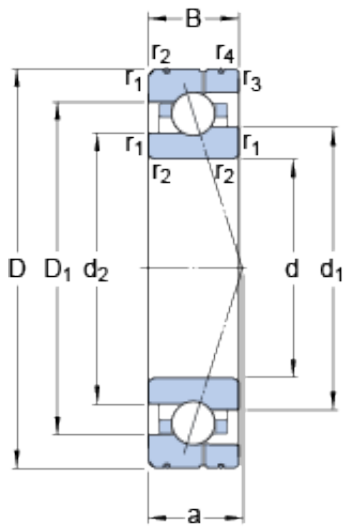




# BEARING CORP. LTD.



35 mm x 62 mm x 14 mm SKF 7007 CE/P4AL  
angular contact ball bearings

Bearing No. 7007 CE/P4AL

7007 CE/P4AL Bearing 2D drawings and 3D CAD models

Size	62x35x14 mm
Bore Diameter	62 mm
Outer Diameter	35 mm
Width	14 mm
d	35 mm
D	62 mm
B	14 mm
d <sub>1</sub>	43.7 mm
d <sub>2</sub>	41.6 mm
D <sub>1</sub>	52.25 mm
b	1.7 mm
C <sub>1</sub>	7.3 mm
C <sub>2</sub>	2.2 mm
C <sub>3</sub>	2.8 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	13.5 mm
d <sub>a</sub> - min.	39.6 mm
d <sub>b</sub> - min.	39.6 mm
D <sub>a</sub> - max.	57.4 mm
D <sub>b</sub> - max.	57.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	45.6 mm



## BEARING CORP. LTD.

Basic dynamic load rating - C	11.4 kN
Basic static load rating - C <sub>0</sub>	6.6 kN
Fatigue load limit - P <sub>u</sub>	0.28 kN
Limiting speed for grease lubrication	34000 r/min
Limiting speed for oil lubrication	50000 mm/min
Ball - D <sub>w</sub>	7.144 mm
Ball - z	17
G <sub>ref</sub>	2.4 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	7.9
Preload class A - G <sub>A</sub>	60 N
Preload class B - G <sub>B</sub>	180 N
Preload class C - G <sub>C</sub>	370 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	31 N/micron
Preload class B	49 N/micron
Preload class C	67 N/micron
d <sub>1</sub>	43.7 mm
d <sub>2</sub>	41.6 mm
D <sub>1</sub>	52.25 mm
C <sub>1</sub>	7.3 mm
C <sub>2</sub>	2.2 mm
C <sub>3</sub>	2.8 mm
r <sub>1,2</sub> min.	1 mm



## BEARING CORP. LTD.

$r_{3,4}$ min.	0.6 mm
$d_a$ min.	39.6 mm
$d_b$ min.	39.6 mm
$D_a$ max.	57.4 mm
$D_b$ max.	57.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	45.6 mm
Basic dynamic load rating C	11.4 kN
Basic static load rating $C_0$	6.55 kN
Fatigue load limit $P_u$	0.28 kN
Attainable speed for grease lubrication	34000 r/min
Attainable speed for oil-air lubrication	50000 r/min
Ball diameter $D_w$	7.144 mm
Number of balls z	17
Reference grease quantity $G_{ref}$	2.4 cm <sup>3</sup>
Preload class A $G_A$	60 N
Static axial stiffness, preload class A	31 N/ $\mu$ m
Preload class B $G_B$	180 N
Static axial stiffness, preload class B	49 N/ $\mu$ m
Preload class C $G_C$	370 N
Static axial stiffness, preload class C	67 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



## BEARING CORP. LTD.

Calculation factor $f_0$	7.9
Mass bearing	0.15 kg