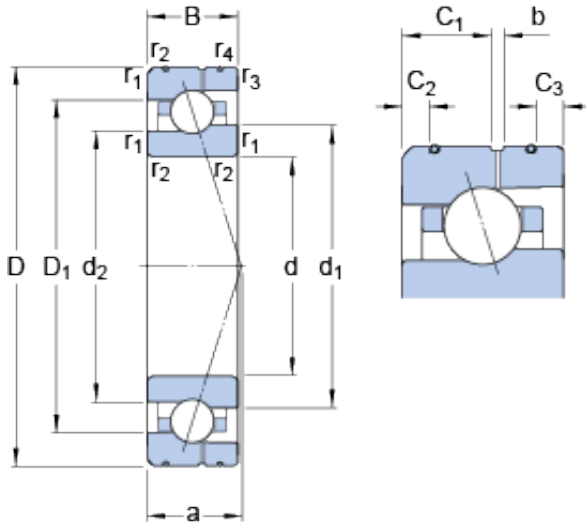




# GARLOCK BEARINGS LTD



## 7006 CE/P4AL SKF High Speed Angular Contact Ball Bearings

Bearing No. 7006 CE/P4AL

7006 CE/P4AL Bearing 2D drawings and 3D CAD models

Size	55x30x13 mm
Bore Diameter	55 mm
Outer Diameter	30 mm
Width	13 mm
d	30 mm
D	55 mm
B	13 mm
d <sub>1</sub>	38.2 mm
d <sub>2</sub>	36.4 mm
D <sub>1</sub>	45.81 mm
b	1.8 mm
C <sub>1</sub>	6.5 mm
C <sub>2</sub>	2.3 mm
C <sub>3</sub>	2.6 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	12.2 mm
d <sub>a</sub> - min.	34.6 mm
d <sub>b</sub> - min.	34.6 mm
D <sub>a</sub> - max.	50.4 mm
D <sub>b</sub> - max.	50.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	39.9 mm



## GARLOCK BEARINGS LTD

Basic dynamic load rating - C	9.4 kN
Basic static load rating - C <sub>0</sub>	5.2 kN
Fatigue load limit - P <sub>u</sub>	0.22 kN
Limiting speed for grease lubrication	39000 r/min
Limiting speed for oil lubrication	60000 mm/min
Ball - D <sub>w</sub>	6.35 mm
Ball - z	17
G <sub>ref</sub>	1.7 cm <sup>3</sup>
Calculation factor - f <sub>0</sub>	7.9
Preload class A - G <sub>A</sub>	50 N
Preload class B - G <sub>B</sub>	150 N
Preload class C - G <sub>C</sub>	300 N
Calculation factor - f	1.05
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	28 N/micron
Preload class B	44 N/micron
Preload class C	60 N/micron
d <sub>1</sub>	38.2 mm
d <sub>2</sub>	36.4 mm
D <sub>1</sub>	45.81 mm
C <sub>1</sub>	6.5 mm
C <sub>2</sub>	2.3 mm
C <sub>3</sub>	2.6 mm
r <sub>1,2</sub> min.	1 mm



## GARLOCK BEARINGS LTD

$r_{3,4}$ min.	0.6 mm
$d_a$ min.	34.6 mm
$d_b$ min.	34.6 mm
$D_a$ max.	50.4 mm
$D_b$ max.	50.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
$d_n$	39.9 mm
Basic dynamic load rating C	9.36 kN
Basic static load rating $C_0$	5.2 kN
Fatigue load limit $P_u$	0.22 kN
Attainable speed for grease lubrication	39000 r/min
Attainable speed for oil-air lubrication	60000 r/min
Ball diameter $D_w$	6.35 mm
Number of balls z	17
Reference grease quantity $G_{ref}$	1.7 cm <sup>3</sup>
Preload class A $G_A$	50 N
Static axial stiffness, preload class A	28 N/ $\mu$ m
Preload class B $G_B$	150 N
Static axial stiffness, preload class B	44 N/ $\mu$ m
Preload class C $G_C$	300 N
Static axial stiffness, preload class C	60 N/ $\mu$ m
Calculation factor f	1.05
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



## GARLOCK BEARINGS LTD

Calculation factor $f_0$	7.9
Mass bearing	0.11 kg