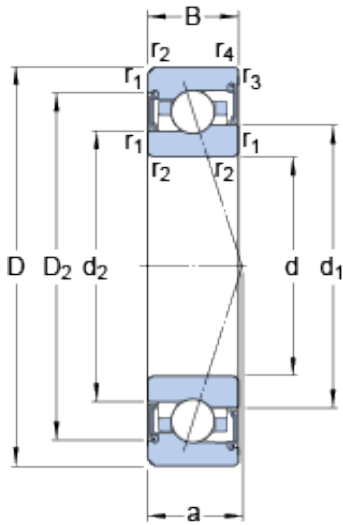




# GARLOCK BEARINGS LTD



## S7008 CE/HCP4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7008 CE/HCP4A

S7008 CE/HCP4A 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>2</sub>	60.85 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>a</sub> - max.	49.1 mm
d <sub>b</sub> - min.	44.6 mm
d <sub>b</sub> - max.	47 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
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



## GARLOCK BEARINGS LTD

Limiting speed for grease lubrication	36000 r/min
Ball - $D_w$	7.144 mm
Ball - z	19
Calculation factor - $f_0$	8.1
Preload class A - $G_A$	65 N
Preload class B - $G_B$	200 N
Preload class C - $G_C$	390 N
Calculation factor - f	1.06
Calculation factor - f	1
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.03
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{HC}$	1.01
Preload class A	38 N/micron
Preload class B	60 N/micron
Preload class C	81 N/micron
$d_1$	49.7 mm
$d_2$	47.6 mm
$D_2$	60.85 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	44.6 mm
$d_a$ max.	49.1 mm
$d_b$ min.	44.6 mm
$d_b$ max.	47 mm
$D_a$ max.	63.4 mm
$D_b$ max.	63.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	12.4 kN



## GARLOCK BEARINGS LTD

Basic static load rating $C_0$	7.65 kN
Fatigue load limit $P_u$	0.32 kN
Attainable speed for grease lubrication	36000 r/min
Ball diameter $D_w$	7.144 mm
Number of balls $z$	19
Preload class A $G_A$	65 N
Static axial stiffness, preload class A	38 N/ $\mu$ m
Preload class B $G_B$	200 N
Static axial stiffness, preload class B	60 N/ $\mu$ m
Preload class C $G_C$	390 N
Static axial stiffness, preload class C	81 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 $f_{HC}$	1.01
Calculation factor $f_0$	8.1
Mass bearing	0.17 kg