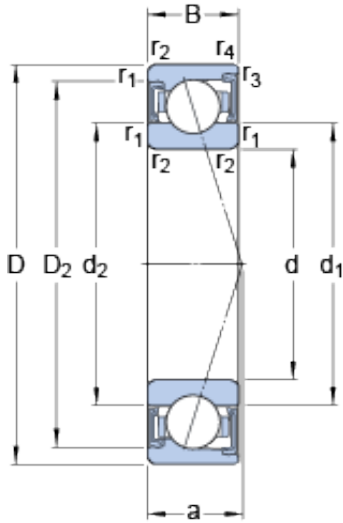




# GARLOCK BEARINGS LTD



S7008 ACD/P4A Bearing 2D drawings and 3D CAD models

## S7008 ACD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7008 ACD/P4A

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>	49.2 mm
d <sub>2</sub>	49.2 mm
D <sub>2</sub>	61.02 mm
r <sub>1,2</sub> - min.	1 mm
r <sub>3,4</sub> - min.	0.3 mm
a	20.2 mm
d <sub>a</sub> - min.	44.6 mm
d <sub>a</sub> - max.	48.7 mm
d <sub>b</sub> - min.	44.6 mm
d <sub>b</sub> - max.	48.7 mm
D <sub>a</sub> - max.	63.4 mm
D <sub>b</sub> - max.	66 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.3 mm
Basic dynamic load rating - C	15.9 kN
Basic static load rating - C <sub>0</sub>	10.4 kN
Fatigue load limit - P <sub>u</sub>	0.44 kN



## GARLOCK BEARINGS LTD

Limiting speed for grease lubrication	19000 r/min
Ball - $D_w$	7.938 mm
Ball - z	18
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 - $G_A$	100 N
Preload class B - $G_B$	200 N
Preload class C - $G_C$	400 N
Preload class D - $G_D$	800 N
Calculation factor - f	1.06
Calculation factor - $f_1$	0.99
Calculation factor - $f_{2A}$	1
Calculation factor - $f_{2B}$	1.02
Calculation factor - $f_{2C}$	1.05
Calculation factor - $f_{2D}$	1.08
Calculation factor - $f_{HC}$	1
Preload class A	96 N/micron
Preload class B	124 N/micron
Preload class C	162 N/micron
Preload class D	214 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF



## GARLOCK BEARINGS LTD

Minimum Buy Quantity	N/A
Weight / Kilogram	0.208
Product Group	B04270
Enclosure	2 Seals
Precision Class	ABEC 7   ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	25 Degree
Preload	None
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Enclosure Type	Non Contact Seal
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row   Angular Contact   High Precision
Long Description	40MM Bore; 68MM Outside Diameter; 15MM Width; 2 Seals Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	S7008 ACD/P4A
Weight / LBS	0.459
Outside Diameter	2.677 Inch   68 Millimeter



## GARLOCK BEARINGS LTD

Bore	1.575 Inch   40 Millimeter
Width	0.591 Inch   15 Millimeter
$d_1$	49.2 mm
$d_2$	49.2 mm
$D_2$	61.02 mm
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
$d_a$ min.	44.6 mm
$d_a$ max.	48.7 mm
$d_b$ min.	44.6 mm
$d_b$ max.	48.7 mm
$D_a$ max.	63.4 mm
$D_b$ max.	66 mm
$r_a$ max.	1 mm
$r_b$ max.	0.3 mm
Basic dynamic load rating C	15.9 kN
Basic static load rating $C_0$	10.4 kN
Fatigue load limit $P_u$	0.44 kN
Attainable speed for grease lubrication	19000 r/min
Ball diameter $D_w$	7.938 mm
Number of balls z	18
Preload class A $G_A$	100 N
Static axial stiffness, preload class A	96 N/ $\mu$ m
Preload class B $G_B$	200 N
Static axial stiffness, preload class B	124 N/ $\mu$ m
Preload class C $G_C$	400 N
Static axial stiffness, preload class C	162 N/ $\mu$ m
Preload class D $G_D$	800 N
Static axial stiffness, preload class D	214 N/ $\mu$ m



## GARLOCK BEARINGS LTD

Calculation factor $f$	1.06
Calculation factor $f_1$	0.99
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02
Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.08
Calculation factor $f_{HC}$	1
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	0.19 kg