



AURORA Bearing Supply Co., Ltd.



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

40 mm x 68 mm x 15 mm SKF S7008 ACD/P4A 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 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
a	20.2 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



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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



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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	http://www.skf.com
Manufacturer Item Number	S7008 ACD/P4A
Weight / LBS	0.459
Outside Diameter	2.677 Inch 68 Millimeter



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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/ μ m
Preload class B G_B	200 N
Static axial stiffness, preload class B	124 N/ μ m
Preload class C G_C	400 N
Static axial stiffness, preload class C	162 N/ μ m
Preload class D G_D	800 N
Static axial stiffness, preload class D	214 N/ μ m



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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