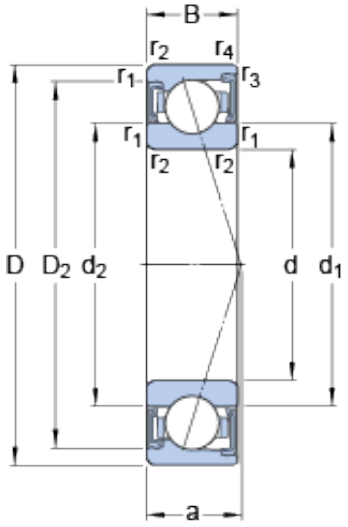
Loyal | S7008 ACD/P4A



Bearing No. S7008 ACD/P4A

a	20.2 mm
d	40 mm
D	68 mm
B	15 mm
Noun	Bearing
Bore	1.575 Inch | 40 Millimeter
Width	0.591 Inch | 15 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	18
Category	Precision Ball Bearings
Enclosure	2 Seals
Size (mm)	68x40x15
Inventory	0.0
Width (mm)	15
Weight / LBS	0.459
Flush Ground	No
Mass bearing	0.19 kg
d_1	49.2 mm
d_2	49.2 mm
Inch - Metric	Metric
Cage Material	Phenolic
D_2	61.02 mm
Contact Angle	25 Degree
Product Group	B04270
Raceway Style	1 Rib Outer Ring
D_2	61.02 mm
d_1	49.2 mm

d_2	49.2 mm
Bearing number	S7008 ACD/P4A
Other Features	Single Row | Angular Contact | High Precision
Keyword String	Angular Contact Ball
Enclosure Type	Non Contact Seal
Material - Ball	Steel
Precision Class	ABEC 7 | ISO P4
Preload class D	214 N/micron
Preload class C	162 N/micron
Preload class B	124 N/micron
Preload class A	96 N/micron
Rolling Element	Ball Bearing
Manufacturer URL	http://www.skf.com
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
Outside Diameter	2.677 Inch | 68 Millimeter
Manufacturer Name	SKF
Weight / Kilogram	0.208
Number of balls z	18
d_a min.	44.6 mm
Number of Bearings	1 (Single)
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
Bore Diameter (mm)	68
d_a max.	48.7 mm
r_b max.	0.3 mm
Outer Diameter (mm)	40
Calculation factor f	1.06
d_a - min.	44.6 mm
$r_{1,2}$ min.	1 mm
Calculation factor e	0.68
d_a - max.	48.7 mm
$r_{3,4}$ min.	0.3 mm
Ball - D_w	7.938 mm
d_b - min.	44.6 mm
D_a - max.	63.4 mm
D_b - max.	66 mm
r_a - max.	1 mm
r_b - max.	0.3 mm
d_b - max.	48.7 mm
Minimum Buy Quantity	N/A
Calculation factor - f	1.06
Harmonized Tariff Code	8482.10.50.28
$r_{3,4}$ - min.	0.3 mm
Calculation factor - e	0.68
$r_{1,2}$ - min.	1 mm
Manufacturer Item Number	S7008 ACD/P4A
Ball diameter D_w	7.938 mm
Basic dynamic load rating C	15.9 kN
Preload class A G_A	100 N
Preload class C G_C	400 N
Preload class D G_D	800 N
Preload class B G_B	200 N

Basic dynamic load rating - C	15.9 kN
Preload class D - G_D	800 N
Preload class B - G_B	200 N
Preload class A - G_A	100 N
Preload class C - G_C	400 N
Calculation factor f_1	0.99
Fatigue load limit P_u	0.44 kN
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1
Calculation factor - Y_2	1.41
Fatigue load limit - P_u	0.44 kN
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Calculation factor - f_1	0.99
Calculation factor - Y_1	0.92
Calculation factor - f_{2D}	1.08
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	19000 r/min
Basic static load rating C_0	10.4 kN
Static axial stiffness, preload class D	214 N/µm
Static axial stiffness,	162 N/µm

preload class C	
Static axial stiffness, preload class A	96 N/µm
Attainable speed for grease lubrication	19000 r/min
Static axial stiffness, preload class B	124 N/µm
Basic static load rating - C_0	10.4 kN
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