



Bearing No. 7044 ACD/P4A

a	93.6 mm
d	220 mm
D	340 mm
B	56 mm
Noun	Bearing
Bore	8.661 Inch 220 Millimeter
Width	2.205 Inch 56 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	21
Category	Precision Ball Bearings
Size (mm)	340x220x56
Enclosure	Open
Inventory	0.0
Width (mm)	56
Weight / LBS	41.756
Flush Ground	No
Mass bearing	16.1 kg
d ₁	257 mm
d ₂	257 mm
D ₁	303 mm
Inch - Metric	Metric
Cage Material	Phenolic
d _n	267.1 mm
Contact Angle	25 Degree
Product Group	B04270
Raceway Style	1 Rib Outer Ring
d ₁	257 mm
d	267.1 mm

n	
D ₁	303 mm
d ₂	257 mm
Bearing number	7044 ACD/P4A
Other Features	Single Row Angular Contact High Precision
Keyword String	Angular Contact Ball
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
G _{ref}	201 cm3
Preload class D	1254 N/micron
Preload class C	935 N/micron
Preload class B	710 N/micron
Preload class A	546 N/micron
Rolling Element	Ball Bearing
Outside Diameter	13.386 Inch 340 Millimeter
Long Description	220MM Bore; 340MM Outside Diameter; 56MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R
Manufacturer URL	http://www.skf.com
Weight / Kilogram	18.957
Manufacturer Name	SKF
Number of balls z	21
r _b max.	1.5 mm
Bore Diameter (mm)	340
D _a max.	327 mm
D _b max.	334 mm

d_a min.	233 mm
r_a max.	2.5 mm
Number of Bearings	1 (Single)
d_b min.	233 mm
Outer Diameter (mm)	220
d_a - min.	233 mm
$r_{1,2}$ min.	3 mm
d_b - min.	233 mm
Calculation factor f	1.13
$r_{3,4}$ min.	1.5 mm
Calculation factor e	0.68
D_a - max.	327 mm
Ball - D_w	38.1 mm
D_b - max.	334 mm
Minimum Buy Quantity	N/A
r_b - max.	1.5 mm
r_a - max.	2.5 mm
Calculation factor - e	0.68
Calculation factor - f	1.13
$r_{1,2}$ - min.	3 mm
$r_{3,4}$ - min.	1.5 mm
Harmonized Tariff Code	8482.10.50.28
Manufacturer Item Number	7044 ACD/P4A
Ball diameter D_w	38.1 mm
Basic dynamic load rating C	319 kN
Preload class A G_A	2000 N
Preload class D G_D	16000 N
Preload class C G_C	8000 N
Basic dynamic load rating - C	319 kN
Preload class B G_B	4000 N

Preload class C - G_C	8000 N
Preload class A - G_A	2000 N
Preload class D - G_D	16000 N
Preload class B - G_B	4000 N
Calculation factor f_1	0.99
Fatigue load limit P_u	11 kN
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2D}	1.08
Calculation factor f_{2A}	1
Calculation factor - Y_0	0.76
Calculation factor - Y_2	1.41
Fatigue load limit - P_u	11 kN
Limiting speed for oil lubrication	5300 mm/min
Calculation factor - X_2	0.67
Calculation factor - Y_1	0.92
Calculation factor - f_1	0.99
Calculation factor - f_{2D}	1.08
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	3600 r/min
Basic static load rating C_0	440 kN
Attainable speed for grease lubrication	3600 r/min
Static axial stiffness,	1254 N/ μ m

preload class D	
Static axial stiffness, preload class C	935 N/ μ m
Static axial stiffness, preload class B	710 N/ μ m
Static axial stiffness, preload class A	546 N/ μ m
Attainable speed for oil- air lubrication	5300 r/min
Basic static load rating - C_0	440 kN
Reference grease quantity G_{ref}	201 cm ³
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