



Bearing No. 7016 ACD/P4A

a	35 mm
d	80 mm
D	125 mm
B	22 mm
Bore	3.15 Inch 80 Millimeter
Noun	Bearing
Width	0.866 Inch 22 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	20
Category	Precision Ball Bearings
Size (mm)	125x80x22
Enclosure	Open
Inventory	0.0
Width (mm)	22
Weight / LBS	1.949
Flush Ground	No
Mass bearing	0.85 kg
d ₁	93.9 mm
d ₂	93.9 mm
D ₁	111.1 mm
Inch - Metric	Metric
Cage Material	Phenolic
d _n	96.9 mm
Contact Angle	25 Degree
Product Group	B04270
Raceway Style	1 Rib Outer Ring
d ₁	93.9 mm
d _n	96.9 mm

D_1	111.1 mm
d_2	93.9 mm
Bearing number	7016 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}	11.1 cm3
Preload class D	523 N/micron
Preload class C	386 N/micron
Preload class B	291 N/micron
Preload class A	223 N/micron
Rolling Element	Ball Bearing
Outside Diameter	4.921 Inch 125 Millimeter
Long Description	80MM Bore; 125MM Outside Diameter; 22MM 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 Ra
Manufacturer URL	http://www.skf.com
Weight / Kilogram	0.89
Manufacturer Name	SKF
Number of balls z	20
r_b max.	0.6 mm
Bore Diameter (mm)	125
D_a max.	119 mm
D_b max.	121 mm
d_a min.	86 mm

r_a max.	1 mm
Number of Bearings	1 (Single)
d_b min.	86 mm
Outer Diameter (mm)	80
d_a - min.	86 mm
$r_{1,2}$ min.	1.1 mm
d_b - min.	86 mm
Calculation factor f	1.13
$r_{3,4}$ min.	0.6 mm
Calculation factor e	0.68
D_a - max.	119 mm
Ball - D_w	14.288 mm
D_b - max.	121 mm
Minimum Buy Quantity	N/A
r_b - max.	0.6 mm
r_a - max.	1 mm
Calculation factor - e	0.68
Calculation factor - f	1.13
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Harmonized Tariff Code	8482.10.50.28
Manufacturer Item Number	7016 ACD/P4A
Ball diameter D_w	14.288 mm
Basic dynamic load rating C	62.4 kN
Preload class A G_A	390 N
Preload class D G_D	3120 N
Preload class C G_C	1560 N
Basic dynamic load rating - C	62.4 kN
Preload class B G_B	780 N
Preload class C - G_C	1560 N

Preload class A - G_A	390 N
Preload class D - G_D	3120 N
Preload class B - G_B	780 N
Calculation factor f_1	0.99
Fatigue load limit P_u	2.45 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
Limiting speed for oil lubrication	15000 mm/min
Fatigue load limit - P_u	2.4 kN
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	9500 r/min
Basic static load rating C_0	58.5 kN
Attainable speed for grease lubrication	9500 r/min
Static axial stiffness, preload class D	523 N/ μ m

Static axial stiffness, preload class C	386 N/μm
Static axial stiffness, preload class B	291 N/μm
Static axial stiffness, preload class A	223 N/μm
Attainable speed for oil- air lubrication	15000 r/min
Basic static load rating - C ₀	58.5 kN
Reference grease quantity G _{ref}	11.1 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