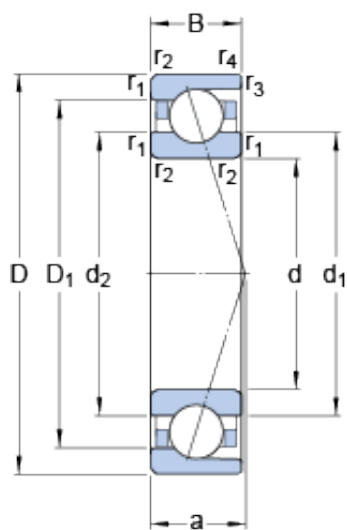




Bearing No. 7016 CD/HCP4A

D	125 mm
d	80 mm
B	22 mm
a	24.8 mm
Noun	Bearing
Bore	3.15 Inch 80 Millimeter
Width	0.866 Inch 22 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	20
Inventory	0.0
Enclosure	Open
Size (mm)	125x80x22
Width (mm)	22
Flush Ground	No
Mass bearing	0.71 kg
d ₁	93.9 mm
d ₂	93.9 mm
d _n	96.9 mm
Inch - Metric	Metric
D ₁	111.1 mm
Cage Material	PEEK Resin
Raceway Style	1 Rib Outer Ring
d ₂	93.9 mm
Contact Angle	15 Degree
d ₁	93.9 mm
D ₁	111.1 mm
d _n	96.9 mm

Product Group	B04270
Other Features	Single Row Angular Contact High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7016 CD/HCP4A
G _{ref}	11.1 cm3
Rolling Element	Ball Bearing
Material - Ball	Ceramic
Preload class A	102 N/micron
Preload class B	139 N/micron
Preload class C	194 N/micron
Preload class D	282 N/micron
Precision Class	ABEC 7 ISO P4
Long Description	80MM Bore; 125MM Outside Diameter; 22MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; PEEK Resin Cage Material; 1 Rib Outer Ring
Manufacturer URL	http://www.skf.com
Outside Diameter	4.921 Inch 125 Millimeter
Number of balls z	20
Weight / Kilogram	0
Manufacturer Name	SKF
Number of Bearings	1 (Single)
d _a min.	86 mm
d _b min.	86 mm
D _a max.	119 mm
D _b max.	121 mm

r_a max.	1 mm
r_b max.	0.6 mm
Bore Diameter (mm)	125
Outer Diameter (mm)	80
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1.1 mm
d_b - min.	86 mm
Calculation factor f	1.13
D_a - max.	119 mm
D_b - max.	121 mm
r_a - max.	1 mm
d_a - min.	86 mm
Ball - D_w	14.288 mm
r_b - max.	0.6 mm
Minimum Buy Quantity	N/A
Calculation factor - f	1.13
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Harmonized Tariff Code	8482.10.50.28
Basic dynamic load rating C	65 kN
Ball diameter D_w	14.288 mm
Basic dynamic load rating - C	65 kN
Preload class D G_D	1920 N
Preload class C G_C	960 N
Preload class B G_B	480 N
Preload class A G_A	240 N
Preload class D - G_D	1920 N
Preload class C - G_C	960 N
Preload class B - G_B	480 N
Preload class A - G_A	240 N

Calculation factor f_0	15.5
Calculation factor f_1	1
Fatigue load limit P_u	2.55 kN
Calculation factor - f	1
Calculation factor f_{HC}	1.02
Calculation factor f_{2D}	1.09
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor - f_0	15.5
Limiting speed for oil lubrication	20000 mm/min
Fatigue load limit - P_u	2.6 kN
Calculation factor - f_{2D}	1.09
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1.02
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	13000 r/min
Basic static load rating C_0	61 kN
Static axial stiffness, preload class D	282 N/ μ m
Static axial stiffness, preload class B	139 N/ μ m
Static axial stiffness, preload class A	102 N/ μ m
Attainable speed for grease lubrication	13000 r/min
Static axial stiffness, preload class C	194 N/ μ m
Basic static load rating -	61 kN

C_0	
Attainable speed for oil-air lubrication	20000 r/min
Reference grease quantity G_{ref}	11.1 cm ³