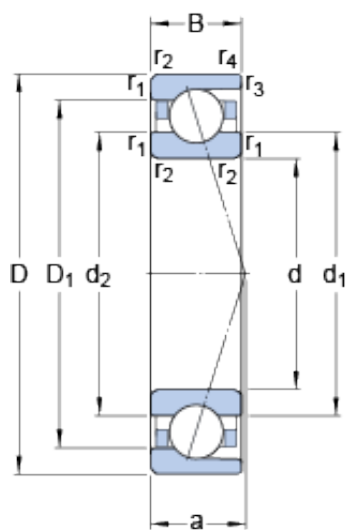




Bearing No. 7021 ACD/P4A

a	44 mm
d	105 mm
D	160 mm
B	26 mm
Bore	4.134 Inch 105 Millimeter
Noun	Bearing
Width	1.024 Inch 26 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	21
Category	Precision Ball Bearings
Size (mm)	160x105x26
Enclosure	Open
Inventory	0.0
Width (mm)	26
Weight / LBS	3.6
Flush Ground	No
Mass bearing	1.59 kg
d ₁	121.9 mm
d ₂	121.9 mm
D ₁	143.1 mm
Inch - Metric	Metric
Cage Material	Phenolic
d _n	125.6 mm
Contact Angle	25 Degree
Product Group	B04270
Raceway Style	1 Rib Outer Ring
d ₁	121.9 mm
d	125.6 mm

n	
D ₁	143.1 mm
d ₂	121.9 mm
Bearing number	7021 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}	20.4 cm3
Preload class D	655 N/micron
Preload class C	484 N/micron
Preload class B	365 N/micron
Preload class A	279 N/micron
Rolling Element	Ball Bearing
Outside Diameter	6.299 Inch 160 Millimeter
Long Description	105MM Bore; 160MM Outside Diameter; 26MM 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	1.63
Manufacturer Name	SKF
Number of balls z	21
r _b max.	1 mm
Bore Diameter (mm)	160
D _a max.	151 mm
D _b max.	155 mm

d_a min.	114 mm
r_a max.	2 mm
Number of Bearings	1 (Single)
d_b min.	114 mm
Outer Diameter (mm)	105
d_a - min.	114 mm
$r_{1,2}$ min.	2 mm
d_b - min.	114 mm
Calculation factor f	1.15
$r_{3,4}$ min.	1 mm
Calculation factor e	0.68
D_a - max.	151 mm
Ball - D_w	17.462 mm
D_b - max.	155 mm
Minimum Buy Quantity	N/A
r_b - max.	1 mm
r_a - max.	2 mm
Calculation factor - e	0.68
Calculation factor - f	1.15
$r_{1,2}$ - min.	2 mm
$r_{3,4}$ - min.	1 mm
Harmonized Tariff Code	8482.10.50.28
Manufacturer Item Number	7021 ACD/P4A
Ball diameter D_w	17.462 mm
Basic dynamic load rating C	90.4 kN
Preload class A G_A	560 N
Preload class D G_D	4480 N
Preload class C G_C	2240 N
Basic dynamic load rating - C	90.4 kN
Preload class B G_B	1120 N

Preload class C - G_C	2240 N
Preload class A - G_A	560 N
Preload class D - G_D	4480 N
Preload class B - G_B	1120 N
Calculation factor f_1	0.99
Fatigue load limit P_u	3.4 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	12000 mm/min
Fatigue load limit - P_u	3.4 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	7500 r/min
Basic static load rating C_0	93 kN
Attainable speed for grease lubrication	7500 r/min
Static axial stiffness,	655 N/ μ m

preload class D	
Static axial stiffness, preload class C	484 N/μm
Static axial stiffness, preload class B	365 N/μm
Static axial stiffness, preload class A	279 N/μm
Attainable speed for oil- air lubrication	12000 r/min
Basic static load rating - C_0	93 kN
Reference grease quantity G_{ref}	20.4 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