



Bearing No. 7221 CD/P4A

D	190 mm
d	105 mm
B	36 mm
a	37.9 mm
Noun	Bearing
Bore	4.134 Inch 105 Millimeter
Width	1.417 Inch 36 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	15
Inventory	0.0
Enclosure	Open
Size (mm)	190x105x36
Width (mm)	36
Flush Ground	No
Mass bearing	3.87 kg
d ₁	131.2 mm
d ₂	131.2 mm
d _n	138.4 mm
Inch - Metric	Metric
D ₁	163.8 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d ₂	131.2 mm
Contact Angle	15 Degree
d ₁	131.2 mm
D ₁	163.8 mm

d _n	138.4 mm
Product Group	B04270
Other Features	Single Row Angular Contact Super Precision High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7221 CD/P4A
G _{ref}	48.333 cm3
Rolling Element	Ball Bearing
Material - Ball	Steel
Preload class A	129 N/micron
Preload class B	174 N/micron
Preload class C	243 N/micron
Preload class D	349 N/micron
Precision Class	ABEC 7 ISO P4
Long Description	105MM Bore; 190MM Outside Diameter; 36MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra
Manufacturer URL	http://www.skf.com
Outside Diameter	7.48 Inch 190 Millimeter
Number of balls z	15
Weight / Kilogram	0
Manufacturer Name	SKF
Number of Bearings	1 (Single)
d _a min.	117 mm
d _b min.	117 mm
D _a max.	178 mm

D_b max.	183 mm
r_a max.	2 mm
r_b max.	1 mm
Bore Diameter (mm)	190
Outer Diameter (mm)	105
$r_{3,4}$ min.	1.1 mm
$r_{1,2}$ min.	2.1 mm
d_b - min.	117 mm
Calculation factor f	1.08
D_a - max.	178 mm
D_b - max.	183 mm
r_a - max.	2 mm
d_a - min.	117 mm
Ball - D_w	26.988 mm
r_b - max.	1 mm
Minimum Buy Quantity	N/A
Calculation factor - f	1.08
$r_{3,4}$ - min.	1.1 mm
$r_{1,2}$ - min.	2.1 mm
Harmonized Tariff Code	8482.10.50.28
Basic dynamic load rating C	172 kN
Ball diameter D_w	26.988 mm
Basic dynamic load rating - C	172 kN
Preload class D G_D	5200 N
Preload class C G_C	2600 N
Preload class B G_B	1300 N
Preload class A G_A	650 N
Preload class D - G_D	5200 N
Preload class C - G_C	2600 N
Preload class B - G_B	1300 N

Preload class A - G_A	650 N
Calculation factor f_0	14.5
Calculation factor f_1	1
Fatigue load limit P_u	5.3 kN
Calculation factor - f	1
Calculation factor f_{HC}	1
Calculation factor f_{2D}	1.05
Calculation factor f_{2C}	1.03
Calculation factor f_{2B}	1.01
Calculation factor f_{2A}	1
Calculation factor - f_0	14.5
Limiting speed for oil lubrication	12000 mm/min
Fatigue load limit - P_u	5.3 kN
Calculation factor - f_{2D}	1.05
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.03
Limiting speed for grease lubrication	7500 r/min
Basic static load rating C_0	153 kN
Static axial stiffness, preload class D	349 N/ μ m
Static axial stiffness, preload class B	174 N/ μ m
Static axial stiffness, preload class A	129 N/ μ m
Attainable speed for grease lubrication	7500 r/min
Static axial stiffness, preload class C	243 N/ μ m

Basic static load rating - C_0	153 kN
Attainable speed for oil- air lubrication	12000 r/min
Reference grease quantity G_{ref}	48.333 cm ³