



Bearing No. 7220 CD/P4A

D	180 mm
d	100 mm
B	34 mm
a	35.9 mm
Noun	Bearing
Bore	3.937 Inch 100 Millimeter
Width	1.339 Inch 34 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	15
Inventory	0.0
Enclosure	Open
Size (mm)	180x100x34
Width (mm)	34
Flush Ground	No
Mass bearing	3.24 kg
d ₁	124.7 mm
d ₂	124.7 mm
d _n	131.4 mm
Inch - Metric	Metric
D ₁	155.3 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d ₂	124.7 mm
Contact Angle	15 Degree
d ₁	124.7 mm
D ₁	155.3 mm

d_n	131.4 mm
Product Group	B04270
Other Features	Single Row Angular Contact Super Precision High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7220 CD/P4A
G_{ref}	40.899 cm3
Rolling Element	Ball Bearing
Material - Ball	Steel
Preload class A	122 N/micron
Preload class B	165 N/micron
Preload class C	230 N/micron
Preload class D	331 N/micron
Precision Class	ABEC 7 ISO P4
Long Description	100MM Bore; 180MM Outside Diameter; 34MM 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	7.087 Inch 180 Millimeter
Number of balls z	15
Weight / Kilogram	0
Manufacturer Name	SKF
Number of Bearings	1 (Single)
d_a min.	112 mm
d_b min.	112 mm
D_a max.	168 mm

D_b max.	173 mm
r_a max.	2 mm
r_b max.	1 mm
Bore Diameter (mm)	180
Outer Diameter (mm)	100
$r_{3,4}$ min.	1.1 mm
$r_{1,2}$ min.	2.1 mm
d_b - min.	112 mm
Calculation factor f	1.09
D_a - max.	168 mm
D_b - max.	173 mm
r_a - max.	2 mm
d_a - min.	112 mm
Ball - D_w	25.4 mm
r_b - max.	1 mm
Minimum Buy Quantity	N/A
Calculation factor - f	1.09
$r_{3,4}$ - min.	1.1 mm
$r_{1,2}$ - min.	2.1 mm
Harmonized Tariff Code	8482.10.50.28
Basic dynamic load rating C	156 kN
Ball diameter D_w	25.4 mm
Basic dynamic load rating - C	156 kN
Preload class D G_D	4720 N
Preload class C G_C	2360 N
Preload class B G_B	1180 N
Preload class A G_A	590 N
Preload class D - G_D	4720 N
Preload class C - G_C	2360 N
Preload class B - G_B	1180 N

Preload class A - G_A	590 N
Calculation factor f_0	14.5
Calculation factor f_1	1
Fatigue load limit P_u	4.9 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	4.9 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	137 kN
Static axial stiffness, preload class D	331 N/ μ m
Static axial stiffness, preload class B	165 N/ μ m
Static axial stiffness, preload class A	122 N/ μ m
Attainable speed for grease lubrication	7500 r/min
Static axial stiffness, preload class C	230 N/ μ m

Basic static load rating - C_0	137 kN
Attainable speed for oil- air lubrication	12000 r/min
Reference grease quantity G_{ref}	40.899 cm ³