



Bearing No. 7214 CD/P4A

a	25.1 mm
d	70 mm
D	125 mm
B	24 mm
Bore	2.756 Inch 70 Millimeter
Noun	Bearing
Width	0.945 Inch 24 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	16
Category	Precision Ball Bearings
Size (mm)	125x70x24
Enclosure	Open
Inventory	0.0
Width (mm)	24
Weight / LBS	2.498
Flush Ground	No
Mass bearing	1.11 kg
d ₁	87.9 mm
d ₂	87.9 mm
D ₁	107.1 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d _n	91.6 mm
Product Group	B04270
Contact Angle	15 Degree
D ₁	107.1 mm
d	91.6 mm

n	
d ₂	87.9 mm
d ₁	87.9 mm
Bearing number	7214 CD/P4A
Keyword String	Angular Contact Ball
Other Features	Single Row Angular Contact Super Precision High Capacity
Preload class B	112 N/micron
Rolling Element	Ball Bearing
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
G _{ref}	13.701 cm ³
Preload class C	156 N/micron
Preload class D	225 N/micron
Preload class A	83 N/micron
Outside Diameter	4.921 Inch 125 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	70MM Bore; 125MM Outside Diameter; 24MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra
Manufacturer Name	SKF
Number of balls z	16
Weight / Kilogram	1.13
d _a min.	79 mm
d _b min.	79 mm
Bore Diameter (mm)	125

Number of Bearings	1 (Single)
r_b max.	0.6 mm
r_a max.	1.5 mm
D_a max.	116 mm
D_b max.	120.8 mm
Outer Diameter (mm)	70
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	0.6 mm
d_a - min.	79 mm
Calculation factor f	1.08
d_b - min.	79 mm
Ball - D_w	15.875 mm
D_a - max.	116 mm
r_a - max.	1.5 mm
r_b - max.	0.6 mm
D_b - max.	120.8 mm
Minimum Buy Quantity	N/A
$r_{1,2}$ - min.	1.5 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.08
$r_{3,4}$ - min.	0.6 mm
Manufacturer Item Number	7214 CD/P4A
Basic dynamic load rating C	68.9 kN
Ball diameter D_w	15.875 mm
Preload class B G_B	520 N
Preload class A G_A	260 N
Preload class C G_C	1040 N
Preload class D G_D	2080 N
Basic dynamic load rating - C	68.9 kN
Preload class B - G_B	520 N

Preload class C - G_C	1040 N
Preload class A - G_A	260 N
Preload class D - G_D	2080 N
Calculation factor f_1	1
Fatigue load limit P_u	2.45 kN
Calculation factor f_0	14.8
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.03
Calculation factor f_{2D}	1.05
Calculation factor f_{HC}	1
Calculation factor - f_0	14.8
Fatigue load limit - P_u	2.4 kN
Limiting speed for oil lubrication	18000 mm/min
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.05
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	11000 r/min
Basic static load rating C_0	58.5 kN
Static axial stiffness, preload class A	83 N/ μ m
Static axial stiffness, preload class B	112 N/ μ m
Static axial stiffness, preload class C	156 N/ μ m
Static axial stiffness,	225 N/ μ m

preload class D	
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	18000 r/min
Basic static load rating - C_0	58.5 kN
Reference grease quantity G_{ref}	13.701 cm ³