



Bearing No. 7224 CD/P4A

a	42.7 mm
d	120 mm
D	215 mm
B	40 mm
Noun	Bearing
Bore	4.724 Inch 120 Millimeter
Width	1.575 Inch 40 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	15
Category	Precision Ball Bearings
Size (mm)	215x120x40
Enclosure	Open
Inventory	0.0
Width (mm)	40
Weight / LBS	12.293
Flush Ground	No
Mass bearing	5.42 kg
d_1	150.3 mm
d_2	150.3 mm
D_1	186.7 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d_n	158.2 mm
Product Group	B04270
Contact Angle	15 Degree
D_1	186.7 mm
d	158.2 mm

n	
d ₂	150.3 mm
d ₁	150.3 mm
Bearing number	7224 CD/P4A
Keyword String	Angular Contact Ball
Other Features	Single Row Angular Contact Super Precision High Capacity
Preload class B	188 N/micron
Rolling Element	Ball Bearing
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
G _{ref}	69.084 cm ³
Preload class C	261 N/micron
Preload class D	373 N/micron
Preload class A	139 N/micron
Outside Diameter	8.465 Inch 215 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	120MM Bore; 215MM Outside Diameter; 40MM 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 R
Manufacturer Name	SKF
Number of balls z	15
Weight / Kilogram	5.581
d _a min.	132 mm
d _b min.	132 mm
Bore Diameter (mm)	215

Number of Bearings	1 (Single)
r_b max.	1 mm
r_a max.	2 mm
D_a max.	203 mm
D_b max.	208 mm
Outer Diameter (mm)	120
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1.1 mm
d_a - min.	132 mm
Calculation factor f	1.08
d_b - min.	132 mm
Ball - D_w	30.162 mm
D_a - max.	203 mm
Minimum Buy Quantity	N/A
r_a - max.	2 mm
r_b - max.	1 mm
D_b - max.	208 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.08
$r_{3,4}$ - min.	1.1 mm
$r_{1,2}$ - min.	2.1 mm
Manufacturer Item Number	7224 CD/P4A
Basic dynamic load rating C	199 kN
Ball diameter D_w	30.162 mm
Preload class B G_B	1500 N
Preload class A G_A	750 N
Preload class C G_C	3000 N
Preload class D G_D	6000 N
Basic dynamic load rating - C	199 kN
Preload class B - G_B	1500 N

Preload class C - G_C	3000 N
Preload class A - G_A	750 N
Preload class D - G_D	6000 N
Calculation factor f_1	1
Fatigue load limit P_u	6.3 kN
Calculation factor f_0	14.6
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	14.6
Fatigue load limit - P_u	6.3 kN
Limiting speed for oil lubrication	10000 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	6700 r/min
Basic static load rating C_0	193 kN
Static axial stiffness, preload class A	139 N/ μ m
Static axial stiffness, preload class B	188 N/ μ m
Static axial stiffness, preload class C	261 N/ μ m
Static axial stiffness,	373 N/ μ m

preload class D	
Attainable speed for grease lubrication	6700 r/min
Attainable speed for oil-air lubrication	10000 r/min
Basic static load rating - C_0	193 kN
Reference grease quantity G_{ref}	69.084 cm ³