



Bearing No. 7204 CD/HCP4A

a	11.6 mm
d	20 mm
D	47 mm
B	14 mm
Noun	Bearing
Bore	0.787 Inch 20 Millimeter
Width	0.551 Inch 14 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	11
Category	Precision Ball Bearings
Size (mm)	47x20x14
Enclosure	Open
Inventory	0.0
Width (mm)	14
Weight / LBS	0.208
Flush Ground	No
Mass bearing	0.09 kg
d ₁	29.1 mm
d ₂	29.1 mm
D ₁	38.7 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d _n	31.1 mm
Product Group	B04270
Contact Angle	15 Degree
D ₁	38.7 mm
d	31.1 mm

n	
d ₂	29.1 mm
d ₁	29.1 mm
Bearing number	7204 CD/HCP4A
Keyword String	Angular Contact Ball
Other Features	Single Row Angular Contact Super Precision High Capacity Hybrid Corrosion Resistant Ball
Preload class B	37 N/micron
Rolling Element	Ball Bearing
Material - Ball	Ceramic
Precision Class	ABEC 7 ISO P4
G _{ref}	1.539 cm ³
Preload class C	50 N/micron
Preload class D	70 N/micron
Preload class A	28 N/micron
Outside Diameter	1.85 Inch 47 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	20MM Bore; 47MM Outside Diameter; 14MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R
Manufacturer Name	SKF
Number of balls z	11
Weight / Kilogram	0.094
d _a min.	25.6 mm
d _b min.	25.6 mm
Bore Diameter (mm)	47

Number of Bearings	1 (Single)
r_b max.	0.3 mm
r_a max.	1 mm
D_a max.	41.4 mm
D_b max.	44.6 mm
Outer Diameter (mm)	20
$r_{1,2}$ min.	1 mm
$r_{3,4}$ min.	0.3 mm
d_a - min.	25.6 mm
Calculation factor f	1.03
d_b - min.	25.6 mm
Ball - D_w	7.938 mm
D_a - max.	41.4 mm
Minimum Buy Quantity	N/A
r_a - max.	1 mm
r_b - max.	0.3 mm
D_b - max.	44.6 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.03
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	1 mm
Manufacturer Item Number	7204 CD/HCP4A
Basic dynamic load rating C	11.9 kN
Ball diameter D_w	7.938 mm
Preload class B G_B	90 N
Preload class A G_A	45 N
Preload class C G_C	180 N
Preload class D G_D	360 N
Basic dynamic load rating - C	11.9 kN
Preload class B - G_B	90 N

Preload class C - G_C	180 N
Preload class A - G_A	45 N
Preload class D - G_D	360 N
Calculation factor f_1	1
Fatigue load limit P_u	0.245 kN
Calculation factor f_0	8.7
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}	1.06
Calculation factor f_{HC}	1.01
Calculation factor - f_0	8.7
Fatigue load limit - P_u	0.245 kN
Limiting speed for oil lubrication	60000 mm/min
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.06
Calculation factor - f_{HC}	1.01
Limiting speed for grease lubrication	43000 r/min
Basic static load rating C_0	5.85 kN
Static axial stiffness, preload class A	28 N/ μ m
Static axial stiffness, preload class B	37 N/ μ m
Static axial stiffness, preload class C	50 N/ μ m
Static axial stiffness,	70 N/ μ m

preload class D	
Attainable speed for grease lubrication	43000 r/min
Attainable speed for oil-air lubrication	60000 r/min
Basic static load rating - C_0	5.8 kN
Reference grease quantity G_{ref}	1.539 cm ³