



Bearing No. 7204 CD/P4A

D	47 mm
d	20 mm
B	14 mm
a	11.6 mm
Noun	Bearing
Bore	0.787 Inch 20 Millimeter
Width	0.551 Inch 14 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	11
Inventory	0.0
Enclosure	Open
Size (mm)	47x20x14
Width (mm)	14
Flush Ground	No
Mass bearing	0.1 kg
d_1	29.1 mm
d_2	29.1 mm
d_n	31.1 mm
Inch - Metric	Metric
D_1	38.7 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d_2	29.1 mm
Contact Angle	15 Degree
d_1	29.1 mm
D_1	38.7 mm

d_n	31.1 mm
Product Group	B04270
Other Features	Single Row Angular Contact Super Precision High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7204 CD/P4A
Material - Ball	Steel
Preload class A	25 N/micron
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Preload class D	63 N/micron
G_{ref}	1.539 cm3
Preload class B	33 N/micron
Preload class C	45 N/micron
Manufacturer URL	http://www.skf.com
Long Description	20MM Bore; 47MM Outside Diameter; 14MM 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 Race
Outside Diameter	1.85 Inch 47 Millimeter
Manufacturer Name	SKF
Weight / Kilogram	0.102
Number of balls z	11
D_a max.	41.4 mm
D_b max.	44.6 mm
r_a max.	1 mm
r_b max.	0.3 mm
d_b min.	25.6 mm

d_a min.	25.6 mm
Bore Diameter (mm)	47
Number of Bearings	1 (Single)
Outer Diameter (mm)	20
Ball - D_w	7.938 mm
D_a - max.	41.4 mm
$r_{3,4}$ min.	0.3 mm
$r_{1,2}$ min.	1 mm
d_a - min.	25.6 mm
d_b - min.	25.6 mm
Minimum Buy Quantity	N/A
D_b - max.	44.6 mm
r_a - max.	1 mm
r_b - max.	0.3 mm
Calculation factor f	1.03
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
Basic dynamic load rating C	11.9 kN
Ball diameter D_w	7.938 mm
Preload class A G_A	45 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 D G_D	360 N
Preload class D - G_D	360 N
Preload class B - G_B	90 N
Preload class C - G_C	180 N
Preload class A - G_A	45 N

Calculation factor f_0	8.7
Fatigue load limit P_u	0.245 kN
Calculation factor f_1	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	1
Calculation factor f_{2A}	1
Calculation factor - f_0	8.7
Limiting speed for oil lubrication	53000 mm/min
Fatigue load limit - P_u	0.245 kN
Calculation factor - f_{HC}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2D}	1.05
Calculation factor - f_{2C}	1.03
Limiting speed for grease lubrication	36000 r/min
Basic static load rating C_0	5.85 kN
Static axial stiffness, preload class B	33 N/ μ m
Static axial stiffness, preload class C	45 N/ μ m
Static axial stiffness, preload class D	63 N/ μ m
Static axial stiffness, preload class A	25 N/ μ m
Attainable speed for grease lubrication	36000 r/min
Attainable speed for oil-	53000 r/min

air lubrication	
Basic static load rating - C_0	5.8 kN
Reference grease quantity G_{ref}	1.539 cm ³