



Bearing No. 7208 CD/HCP4A

D	80 mm
d	40 mm
B	18 mm
a	17.1 mm
Noun	Bearing
Bore	1.575 Inch 40 Millimeter
Width	0.709 Inch 18 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	14
Inventory	0.0
Enclosure	Open
Size (mm)	80x40x18
Width (mm)	18
Flush Ground	No
Mass bearing	0.33 kg
d ₁	53.3 mm
d ₂	53.3 mm
d _n	56.2 mm
Inch - Metric	Metric
D ₁	66.7 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d ₂	53.3 mm
Contact Angle	15 Degree
d ₁	53.3 mm
D ₁	66.7 mm

d _n	56.2 mm
Product Group	B04270
Other Features	Single Row Angular Contact High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7208 CD/HCP4A
Material - Ball	Ceramic
Preload class A	59 N/micron
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Preload class D	159 N/micron
G _{ref}	4.725 cm ³
Preload class B	79 N/micron
Preload class C	111 N/micron
Manufacturer URL	http://www.skf.com
Long Description	40MM Bore; 80MM Outside Diameter; 18MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra
Outside Diameter	3.15 Inch 80 Millimeter
Manufacturer Name	SKF
Weight / Kilogram	0
Number of balls z	14
D _a max.	73 mm
D _b max.	75.8 mm
r _a max.	1 mm
r _b max.	0.6 mm
d _b min.	47 mm

d_a min.	47 mm
Bore Diameter (mm)	80
Number of Bearings	1 (Single)
Outer Diameter (mm)	40
Ball - D_w	11.112 mm
D_a - max.	73 mm
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1.1 mm
d_a - min.	47 mm
d_b - min.	47 mm
Minimum Buy Quantity	N/A
D_b - max.	75.8 mm
r_a - max.	1 mm
r_b - max.	0.6 mm
Calculation factor f	1.05
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.05
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Basic dynamic load rating C	33.8 kN
Ball diameter D_w	11.112 mm
Preload class A G_A	125 N
Basic dynamic load rating - C	33.8 kN
Preload class B G_B	250 N
Preload class C G_C	500 N
Preload class D G_D	1000 N
Preload class D - G_D	1000 N
Preload class B - G_B	250 N
Preload class C - G_C	500 N
Preload class A - G_A	125 N

Calculation factor f_0	14.4
Fatigue load limit P_u	1.02 kN
Calculation factor f_1	1
Calculation factor f_{HC}	1.01
Calculation factor f_{2D}	1.06
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	14.4
Limiting speed for oil lubrication	34000 mm/min
Fatigue load limit - P_u	1 kN
Calculation factor - f_{HC}	1.01
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2D}	1.06
Calculation factor - f_{2C}	1.03
Limiting speed for grease lubrication	22000 r/min
Basic static load rating C_0	24 kN
Static axial stiffness, preload class B	79 N/ μ m
Static axial stiffness, preload class C	111 N/ μ m
Static axial stiffness, preload class D	159 N/ μ m
Static axial stiffness, preload class A	59 N/ μ m
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-	34000 r/min

air lubrication	
Basic static load rating - C_0	24 kN
Reference grease quantity G_{ref}	4.725 cm ³