



Bearing No. 7208 CD/P4A

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	0.37 kg
d <sub>1</sub>	53.3 mm
d <sub>2</sub>	53.3 mm
d <sub>n</sub>	56.2 mm
Inch - Metric	Metric
D <sub>1</sub>	66.7 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d <sub>2</sub>	53.3 mm
Contact Angle	15 Degree
d <sub>1</sub>	53.3 mm
D <sub>1</sub>	66.7 mm

$d_n$	56.2 mm
Product Group	B04270
Other Features	Single Row   Angular Contact   Super Precision   High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7208 CD/P4A
Material - Ball	Steel
Preload class A	53 N/micron
Precision Class	ABEC 7   ISO P4
Rolling Element	Ball Bearing
Preload class D	143 N/micron
$G_{ref}$	4.725 cm3
Preload class B	71 N/micron
Preload class C	100 N/micron
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Long Description	40MM Bore; 80MM Outside Diameter; 18MM 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	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
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 - $f_0$	14.4
Limiting speed for oil lubrication	30000 mm/min
Fatigue load limit - $P_u$	1 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	18000 r/min
Basic static load rating $C_0$	24 kN
Static axial stiffness, preload class B	71 N/ $\mu$ m
Static axial stiffness, preload class C	100 N/ $\mu$ m
Static axial stiffness, preload class D	143 N/ $\mu$ m
Static axial stiffness, preload class A	53 N/ $\mu$ m
Attainable speed for grease lubrication	18000 r/min
Attainable speed for oil-	30000 r/min

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