



Bearing No. 7203 CD/P4A

D	40 mm
d	17 mm
B	12 mm
a	9.9 mm
Noun	Bearing
Bore	0.669 Inch 17 Millimeter
Width	0.472 Inch 12 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	10
Inventory	0.0
Enclosure	Open
Size (mm)	40x17x12
Width (mm)	12
Flush Ground	No
Mass bearing	0.063 kg
d ₁	24.1 mm
d ₂	24.1 mm
d _n	25.9 mm
Inch - Metric	Metric
D ₁	32.8 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d ₂	24.1 mm
Contact Angle	15 Degree
d ₁	24.1 mm
D ₁	32.8 mm

d_n	25.9 mm
Product Group	B04270
Other Features	Single Row Angular Contact Super Precision High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7203 CD/P4A
G_{ref}	1.005 cm3
Rolling Element	Ball Bearing
Material - Ball	Steel
Preload class A	21 N/micron
Preload class B	28 N/micron
Preload class C	38 N/micron
Preload class D	53 N/micron
Precision Class	ABEC 7 ISO P4
Long Description	17MM Bore; 40MM Outside Diameter; 12MM 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
Manufacturer URL	http://www.skf.com
Outside Diameter	1.575 Inch 40 Millimeter
Number of balls z	10
Weight / Kilogram	0
Manufacturer Name	SKF
Number of Bearings	1 (Single)
d_a min.	21.2 mm
d_b min.	21.2 mm
D_a max.	35.8 mm

D_b max.	37.6 mm
r_a max.	0.6 mm
r_b max.	0.3 mm
Bore Diameter (mm)	40
Outer Diameter (mm)	17
$r_{3,4}$ min.	0.3 mm
$r_{1,2}$ min.	0.6 mm
d_b - min.	21.2 mm
Calculation factor f	1.03
D_a - max.	35.8 mm
D_b - max.	37.6 mm
r_a - max.	0.6 mm
d_a - min.	21.2 mm
Ball - D_w	7.144 mm
r_b - max.	0.3 mm
Minimum Buy Quantity	N/A
Calculation factor - f	1.03
$r_{3,4}$ - min.	0.3 mm
$r_{1,2}$ - min.	0.6 mm
Harmonized Tariff Code	8482.10.50.28
Basic dynamic load rating C	9.23 kN
Ball diameter D_w	7.144 mm
Basic dynamic load rating - C	9.2 kN
Preload class D G_D	280 N
Preload class C G_C	140 N
Preload class B G_B	70 N
Preload class A G_A	35 N
Preload class D - G_D	280 N
Preload class C - G_C	140 N
Preload class B - G_B	70 N

Preload class A - G_A	35 N
Calculation factor f_0	8.5
Calculation factor f_1	1
Fatigue load limit P_u	0.176 kN
Calculation factor - f	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_{2A}	1
Calculation factor - f_0	8.5
Limiting speed for oil lubrication	63000 mm/min
Fatigue load limit - P_u	0.176 kN
Calculation factor - f_{2D}	1.05
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.03
Limiting speed for grease lubrication	43000 r/min
Basic static load rating C_0	4.15 kN
Static axial stiffness, preload class D	53 N/ μ m
Static axial stiffness, preload class B	28 N/ μ m
Static axial stiffness, preload class A	21 N/ μ m
Attainable speed for grease lubrication	43000 r/min
Static axial stiffness, preload class C	38 N/ μ m

Basic static load rating - C_0	4.2 kN
Attainable speed for oil- air lubrication	63000 r/min
Reference grease quantity G_{ref}	1.005 cm ³