



Bearing No. 7211 CD/HCP4A

D	100 mm
d	55 mm
B	21 mm
a	21 mm
Noun	Bearing
Bore	2.165 Inch 55 Millimeter
Width	0.827 Inch 21 Millimeter
UNSPSC	31171531
Preload	None
Category	Precision Ball Bearings
Ball - z	15
Inventory	0.0
Enclosure	Open
Size (mm)	100x55x21
Width (mm)	21
Flush Ground	No
Mass bearing	0.51 kg
d ₁	68.9 mm
d ₂	68.9 mm
d _n	72.6 mm
Inch - Metric	Metric
D ₁	86.1 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d ₂	68.9 mm
Contact Angle	15 Degree
d ₁	68.9 mm
D ₁	86.1 mm

d _n	72.6 mm
Product Group	B04270
Other Features	Single Row Angular Contact High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7211 CD/HCP4A
Material - Ball	Ceramic
Preload class A	80 N/micron
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Preload class D	219 N/micron
G _{ref}	8.595 cm3
Preload class B	108 N/micron
Preload class C	152 N/micron
Manufacturer URL	http://www.skf.com
Long Description	55MM Bore; 100MM Outside Diameter; 21MM 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 R
Outside Diameter	3.937 Inch 100 Millimeter
Manufacturer Name	SKF
Weight / Kilogram	0
Number of balls z	15
D _a max.	91 mm
D _b max.	95.8 mm
r _a max.	1.5 mm
r _b max.	0.6 mm
d _b min.	64 mm

d _a min.	64 mm
Bore Diameter (mm)	100
Number of Bearings	1 (Single)
Outer Diameter (mm)	55
Ball - D _w	14.288 mm
D _a - max.	91 mm
r _{3,4} min.	0.6 mm
r _{1,2} min.	1.5 mm
d _a - min.	64 mm
d _b - min.	64 mm
Minimum Buy Quantity	N/A
D _b - max.	95.8 mm
r _a - max.	1.5 mm
r _b - max.	0.6 mm
Calculation factor f	1.08
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.08
r _{3,4} - min.	0.6 mm
r _{1,2} - min.	1.5 mm
Basic dynamic load rating C	55.3 kN
Ball diameter D _w	14.288 mm
Preload class A G _A	210 N
Basic dynamic load rating - C	55.3 kN
Preload class B G _B	420 N
Preload class C G _C	840 N
Preload class D G _D	1680 N
Preload class D - G _D	1680 N
Preload class B - G _B	420 N
Preload class C - G _C	840 N
Preload class A - G _A	210 N

Calculation factor f_0	14.5
Fatigue load limit P_u	1.8 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	14.5
Limiting speed for oil lubrication	26000 mm/min
Fatigue load limit - P_u	1.8 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	17000 r/min
Basic static load rating C_0	43 kN
Static axial stiffness, preload class B	108 N/ μ m
Static axial stiffness, preload class C	152 N/ μ m
Static axial stiffness, preload class D	219 N/ μ m
Static axial stiffness, preload class A	80 N/ μ m
Attainable speed for grease lubrication	17000 r/min
Attainable speed for oil-	26000 r/min

air lubrication	
Basic static load rating - C_0	43 kN
Reference grease quantity G_{ref}	8.595 cm ³