



Bearing No. 7211 CD/P4A

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)	55x100x21
Width (mm)	21
Flush Ground	No
Mass bearing	0.61 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 Super Precision High Capacity Basic Design
Keyword String	Ball Angular Contact
Bearing number	7211 CD/P4A
G_{ref}	8.595 cm3
Rolling Element	Ball Bearing
Material - Ball	Steel
Preload class A	72 N/micron
Preload class B	98 N/micron
Preload class C	137 N/micron
Preload class D	197 N/micron
Precision Class	ABEC 7 ISO P4
Long Description	55MM Bore; 100MM Outside Diameter; 21MM 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 Rac
Manufacturer URL	http://www.skf.com
Outside Diameter	3.937 Inch 100 Millimeter
Number of balls z	15
Weight / Kilogram	0.606
Manufacturer Name	SKF
Number of Bearings	1 (Single)
d_a min.	64 mm
d_b min.	64 mm
D_a max.	91 mm

D_b max.	95.8 mm
r_a max.	1.5 mm
r_b max.	0.6 mm
Bore Diameter (mm)	55
Outer Diameter (mm)	100
$r_{3,4}$ min.	0.6 mm
$r_{1,2}$ min.	1.5 mm
d_b - min.	64 mm
Calculation factor f	1.08
D_a - max.	91 mm
D_b - max.	95.8 mm
r_a - max.	1.5 mm
d_a - min.	64 mm
Ball - D_w	14.288 mm
r_b - max.	0.6 mm
Minimum Buy Quantity	N/A
Calculation factor - f	1.08
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.5 mm
Harmonized Tariff Code	8482.10.50.28
Basic dynamic load rating C	55.3 kN
Ball diameter D_w	14.288 mm
Basic dynamic load rating - C	55.3 kN
Preload class D G_D	1680 N
Preload class C G_C	840 N
Preload class B G_B	420 N
Preload class A G_A	210 N
Preload class D - G_D	1680 N
Preload class C - G_C	840 N
Preload class B - G_B	420 N

Preload class A - G_A	210 N
Calculation factor f_0	14.5
Calculation factor f_1	1
Fatigue load limit P_u	1.8 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	14.5
Limiting speed for oil lubrication	22000 mm/min
Fatigue load limit - P_u	1.8 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	14000 r/min
Basic static load rating C_0	43 kN
Static axial stiffness, preload class D	197 N/ μ m
Static axial stiffness, preload class B	98 N/ μ m
Static axial stiffness, preload class A	72 N/ μ m
Attainable speed for grease lubrication	14000 r/min
Static axial stiffness, preload class C	137 N/ μ m

Basic static load rating - C_0	43 kN
Attainable speed for oil- air lubrication	22000 r/min
Reference grease quantity G_{ref}	8.595 cm ³