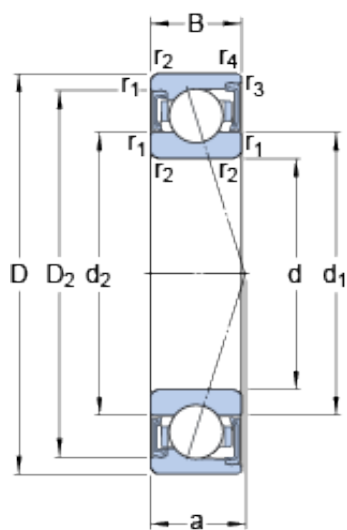




Bearing No. S7011 CD/P4A

a	18.8 mm
d	55 mm
D	90 mm
B	18 mm
Bore	2.165 Inch 55 Millimeter
Noun	Bearing
Width	0.709 Inch 18 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	18
Category	Precision Ball Bearings
Size (mm)	90x55x18
Enclosure	2 Seals
Inventory	0.0
Width (mm)	18
Flush Ground	No
Mass bearing	0.38 kg
d ₁	65.8 mm
d ₂	65.8 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
D ₂	81.8 mm
Product Group	B04270
Contact Angle	15 Degree
d ₂	65.8 mm
D ₂	81.8 mm
d ₁	65.8 mm

Bearing number	S7011 CD/P4A
Keyword String	Ball Angular Contact
Other Features	Single Row Angular Contact Super Precision High Capacity Basic Design
Enclosure Type	Non Contact Seal
Preload class B	91 N/micron
Rolling Element	Ball Bearing
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
Preload class D	186 N/micron
Preload class C	128 N/micron
Preload class A	67 N/micron
Outside Diameter	3.543 Inch 90 Millimeter
Long Description	55MM Bore; 90MM Outside Diameter; 18MM Width; 2 Seals Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R
Manufacturer URL	http://www.skf.com
Number of balls z	18
Manufacturer Name	SKF
Weight / Kilogram	0
d _b min.	61 mm
D _b max.	86.8 mm
r _a max.	1 mm
r _b max.	0.6 mm
Number of Bearings	1 (Single)
Bore Diameter (mm)	90

d _a max.	65.2 mm
D _a max.	84 mm
d _a min.	61 mm
d _b max.	65.2 mm
Outer Diameter (mm)	55
Ball - D _w	11.112 mm
Calculation factor f	1.1
d _a - min.	61 mm
D _a - max.	84 mm
d _a - max.	65.2 mm
d _b - min.	61 mm
d _b - max.	65.2 mm
r _{1,2} min.	1.1 mm
D _b - max.	86.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
r _{3,4} min.	0.6 mm
Minimum Buy Quantity	N/A
r _{1,2} - min.	1.1 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.1
r _{3,4} - min.	0.6 mm
Basic dynamic load rating C	39.7 kN
Ball diameter D _w	11.112 mm
Preload class A G _A	150 N
Preload class C G _C	600 N
Preload class B G _B	300 N
Basic dynamic load rating - C	39.7 kN
Preload class D G _D	1200 N
Preload class D - G _D	1200 N

Preload class C - G_C	600 N
Preload class B - G_B	300 N
Preload class A - G_A	150 N
Fatigue load limit P_u	1.37 kN
Calculation factor f_1	1
Calculation factor f_0	15.1
Calculation factor f_{2D}	1.09
Calculation factor - f	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1
Calculation factor f_{2C}	1.05
Calculation factor - f_0	15.1
Fatigue load limit - P_u	1.4 kN
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Limiting speed for grease lubrication	15000 r/min
Basic static load rating C_0	32.5 kN
Static axial stiffness, preload class C	128 N/ μ m
Static axial stiffness, preload class B	91 N/ μ m
Static axial stiffness, preload class D	186 N/ μ m
Static axial stiffness, preload class A	67 N/ μ m
Attainable speed for	15000 r/min



grease lubrication	
Basic static load rating - C ₀	32.5 kN