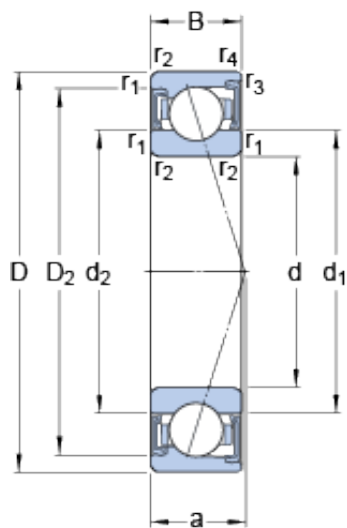




Bearing No. S7011 ACD/P4A

D	90 mm
d	55 mm
B	18 mm
a	26 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 ₂	65.8 mm
Product Group	B04270
D ₂	81.8 mm
d ₂	65.8 mm
d ₁	65.8 mm
d ₁	65.8 mm
Inch - Metric	Metric
D ₂	81.8 mm
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
Contact Angle	25 Degree

Keyword String	Ball Angular Contact
Other Features	Single Row Angular Contact Super Precision High Capacity Basic Design
Enclosure Type	Non Contact Seal
Bearing number	S7011 ACD/P4A
Preload class D	372 N/micron
Rolling Element	Ball Bearing
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
Preload class A	159 N/micron
Preload class B	207 N/micron
Preload class C	275 N/micron
Manufacturer URL	http://www.skf.com
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; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R
Number of balls z	18
Weight / Kilogram	0
Manufacturer Name	SKF
Bore Diameter (mm)	90
Number of Bearings	1 (Single)
d _a min.	61 mm
d _a max.	65.2 mm
d _b min.	61 mm
d _b max.	65.2 mm

D_a max.	84 mm
D_b max.	86.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
Outer Diameter (mm)	55
$r_{3,4}$ min.	0.6 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
Calculation factor f	1.1
Calculation factor e	0.68
D_a - max.	84 mm
d_b - max.	65.2 mm
Minimum Buy Quantity	N/A
d_a - min.	61 mm
d_a - max.	65.2 mm
Ball - D_w	11.112 mm
d_b - min.	61 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - e	0.68
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Calculation factor - f	1.1
Basic dynamic load rating C	37.1 kN
Ball diameter D_w	11.112 mm
Basic dynamic load rating - C	37.1 kN
Preload class C G_C	920 N
Preload class A G_A	230 N
Preload class D G_D	1840 N
Preload class B G_B	460 N

Preload class C - G_C	920 N
Preload class B - G_B	460 N
Preload class A - G_A	230 N
Preload class D - G_D	1840 N
Calculation factor f_1	0.99
Fatigue load limit P_u	1.32 kN
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2D}	1.08
Calculation factor f_{2A}	1
Calculation factor f_{HC}	1
Calculation factor - Y_1	0.92
Fatigue load limit - P_u	1.3 kN
Calculation factor - f_1	0.99
Calculation factor - X_2	0.67
Calculation factor - Y_0	0.76
Calculation factor - Y_2	1.41
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	14000 r/min
Basic static load rating C_0	31 kN
Static axial stiffness, preload class D	372 N/ μ m
Static axial stiffness, preload class C	275 N/ μ m
Static axial stiffness,	207 N/ μ m

preload class B	
Static axial stiffness, preload class A	159 N/ μ m
Attainable speed for grease lubrication	14000 r/min
Basic static load rating - C_0	31 kN
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back- to-back, face-to-face) Y_1	0.92
Calculation factor (back- to-back, face-to-face) Y_2	1.41
Calculation factor (back- to-back, face-to-face) Y_0	0.76
Calculation factor (back- to-back, face-to-face) X_2	0.67