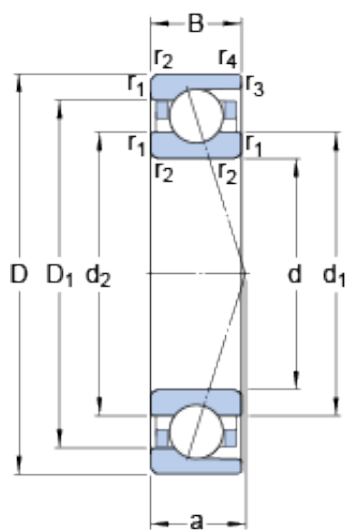




Bearing No. 7011 ACD/P4A

a	26 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	Open
Inventory	0.0
Width (mm)	18
Weight / LBS	0.858
Flush Ground	No
Mass bearing	0.38 kg
d ₁	65.8 mm
d ₂	65.8 mm
D ₁	79.2 mm
Inch - Metric	Metric
Cage Material	Phenolic
d _n	68.1 mm
Contact Angle	25 Degree
Product Group	B04270
Raceway Style	1 Rib Outer Ring
d ₁	65.8 mm
d	68.1 mm

n	
D ₁	79.2 mm
d ₂	65.8 mm
Bearing number	7011 ACD/P4A
Other Features	Single Row Angular Contact High Precision
Keyword String	Angular Contact Ball
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
G _{ref}	5.1 cm3
Preload class D	372 N/micron
Preload class C	275 N/micron
Preload class B	207 N/micron
Preload class A	159 N/micron
Rolling Element	Ball Bearing
Outside Diameter	3.543 Inch 90 Millimeter
Long Description	55MM Bore; 90MM Outside Diameter; 18MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Rac
Manufacturer URL	http://www.skf.com
Weight / Kilogram	0.39
Manufacturer Name	SKF
Number of balls z	18
r _b max.	0.6 mm
Bore Diameter (mm)	90
D _a max.	84 mm
D _b max.	86.8 mm

d_a min.	61 mm
r_a max.	1 mm
Number of Bearings	1 (Single)
d_b min.	61 mm
Outer Diameter (mm)	55
d_a - min.	61 mm
$r_{1,2}$ min.	1.1 mm
d_b - min.	61 mm
Calculation factor f	1.1
$r_{3,4}$ min.	0.6 mm
Calculation factor e	0.68
D_a - max.	84 mm
Ball - D_w	11.112 mm
D_b - max.	86.8 mm
Minimum Buy Quantity	N/A
r_b - max.	0.6 mm
r_a - max.	1 mm
Calculation factor - e	0.68
Calculation factor - f	1.1
$r_{1,2}$ - min.	1.1 mm
$r_{3,4}$ - min.	0.6 mm
Harmonized Tariff Code	8482.10.50.28
Manufacturer Item Number	7011 ACD/P4A
Ball diameter D_w	11.112 mm
Basic dynamic load rating C	37.1 kN
Preload class A G_A	230 N
Preload class D G_D	1840 N
Preload class C G_C	920 N
Basic dynamic load rating - C	37.1 kN
Preload class B G_B	460 N

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
Calculation factor f_1	0.99
Fatigue load limit P_u	1.32 kN
Calculation factor f_{2C}	1.05
Calculation factor f_{HC}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2D}	1.08
Calculation factor f_{2A}	1
Calculation factor - Y_0	0.76
Calculation factor - Y_2	1.41
Fatigue load limit - P_u	1.3 kN
Limiting speed for oil lubrication	22000 mm/min
Calculation factor - X_2	0.67
Calculation factor - Y_1	0.92
Calculation factor - f_1	0.99
Calculation factor - f_{2D}	1.08
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	14000 r/min
Basic static load rating C_0	31 kN
Attainable speed for grease lubrication	14000 r/min
Static axial stiffness,	372 N/ μ m

preload class D	
Static axial stiffness, preload class C	275 N/μm
Static axial stiffness, preload class B	207 N/μm
Static axial stiffness, preload class A	159 N/μm
Attainable speed for oil- air lubrication	22000 r/min
Basic static load rating - C_0	31 kN
Reference grease quantity G_{ref}	5.1 cm ³
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