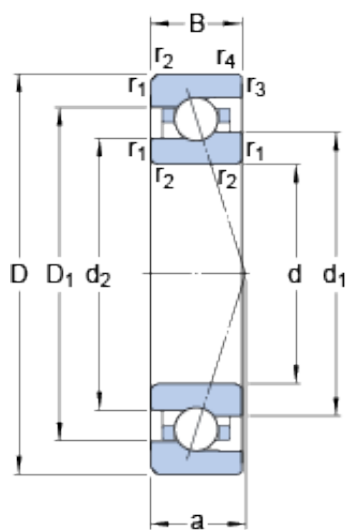




Bearing No. 7011 CE/P4A

a	18.8 mm
d	55 mm
D	90 mm
B	18 mm
Noun	Bearing
Bore	2.165 Inch 55 Millimeter
Width	0.709 Inch 18 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	24
Category	Precision Ball Bearings
Size (mm)	90x55x18
Enclosure	Open
Inventory	0.0
Width (mm)	18
Weight / LBS	0.906
Flush Ground	No
Mass bearing	0.39 kg
d ₁	67.73 mm
d ₂	65.6 mm
D ₁	77.25 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Inner Ring and Outer Ring
d _n	69.6 mm
Product Group	B04270
Contact Angle	15 Degree
d ₁	67.73 mm

d_n	69.6 mm
D_1	77.25 mm
d_2	65.6 mm
Bearing number	7011 CE/P4A
Keyword String	Angular Contact Ball
Other Features	Single Row Angular Contact High Precision
Material - Ball	Steel
Rolling Element	Ball Bearing
G_{ref}	5 cm ³
Preload class A	46 N/micron
Preload class B	72 N/micron
Preload class C	98 N/micron
Precision Class	ABEC 7 ISO P4
Manufacturer URL	http://www.skf.com
Long Description	55MM Bore; 90MM Outside Diameter; 18MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Inner Ring and
Outside Diameter	3.543 Inch 90 Millimeter
Number of balls z	24
Manufacturer Name	SKF
Weight / Kilogram	0.411
D_b max.	85.8 mm
Bore Diameter (mm)	90
Number of Bearings	1 (Single)
r_b max.	0.6 mm
D_a max.	84 mm

r_a max.	1 mm
d_a min.	61 mm
d_b min.	61 mm
Outer Diameter (mm)	55
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
Calculation factor f	1.07
d_a - min.	61 mm
Ball - D_w	7.938 mm
d_b - min.	61 mm
Minimum Buy Quantity	N/A
D_a - max.	84 mm
D_b - max.	85.8 mm
r_a - max.	1 mm
r_b - max.	0.6 mm
$r_{3,4}$ - min.	0.6 mm
$r_{1,2}$ - min.	1.1 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.07
Manufacturer Item Number	7011 CE/P4A
Basic dynamic load rating C	16.8 kN
Ball diameter D_w	7.938 mm
Preload class A G_A	90 N
Basic dynamic load rating - C	16.8 kN
Preload class C G_C	540 N
Preload class B G_B	270 N
Preload class A - G_A	90 N
Preload class C - G_C	540 N
Preload class B - G_B	270 N

Calculation factor f_0	8.4
Fatigue load limit P_u	0.52 kN
Calculation factor f_1	1
Calculation factor f_{HC}	1
Calculation factor f_{2C}	1.05
Calculation factor - f	1
Calculation factor f_{2B}	1.03
Calculation factor f_{2A}	1
Calculation factor - f_0	8.4
Limiting speed for oil lubrication	34000 mm/min
Fatigue load limit - P_u	0.52 kN
Calculation factor - f_{2A}	1
Calculation factor - f_{HC}	1
Calculation factor - f_{2B}	1.03
Calculation factor - f_{2C}	1.05
Limiting speed for grease lubrication	22000 r/min
Basic static load rating C_0	12.2 kN
Static axial stiffness, preload class A	46 N/ μ m
Static axial stiffness, preload class B	72 N/ μ m
Static axial stiffness, preload class C	98 N/ μ m
Attainable speed for grease lubrication	22000 r/min
Attainable speed for oil-air lubrication	34000 r/min
Basic static load rating - C_0	12.2 kN
Reference grease quantity G_{ref}	5 cm ³

