



Bearing No. 7218 ACD/P4A

a	44.3 mm
d	90 mm
D	160 mm
B	30 mm
Bore	3.543 Inch 90 Millimeter
Noun	Bearing
Width	1.181 Inch 30 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	16
Category	Precision Ball Bearings
Size (mm)	160x90x30
Enclosure	Open
Inventory	0.0
Width (mm)	30
Weight / LBS	5.115
Flush Ground	No
Mass bearing	2.27 kg
d ₁	111.6 mm
d ₂	111.6 mm
D ₁	138.4 mm
Inch - Metric	Metric
Cage Material	Phenolic
d _n	117.5 mm
Contact Angle	25 Degree
Product Group	B04270
Raceway Style	1 Rib Outer Ring
d ₁	111.6 mm
d	117.5 mm

n	
D ₁	138.4 mm
d ₂	111.6 mm
Bearing number	7218 ACD/P4A
Other Features	Single Row Angular Contact Super Precision High Capacity
Keyword String	Angular Contact Ball
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
G _{ref}	27.765 cm3
Preload class D	632 N/micron
Preload class C	469 N/micron
Preload class B	355 N/micron
Preload class A	273 N/micron
Rolling Element	Ball Bearing
Long Description	90MM Bore; 160MM Outside Diameter; 30MM 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 Ra
Manufacturer URL	http://www.skf.com
Outside Diameter	6.299 Inch 160 Millimeter
Manufacturer Name	SKF
Number of balls z	16
Weight / Kilogram	2.322
Number of Bearings	1 (Single)
Bore Diameter (mm)	160
r _b max.	1 mm

r_a max.	2 mm
D_b max.	154.4 mm
D_a max.	149 mm
d_b min.	101 mm
d_a min.	101 mm
Outer Diameter (mm)	90
$r_{1,2}$ min.	2 mm
D_a - max.	149 mm
d_a - min.	101 mm
d_b - min.	101 mm
Calculation factor f	1.09
$r_{3,4}$ min.	1 mm
Calculation factor e	0.68
Ball - D_w	22.225 mm
D_b - max.	154.4 mm
Minimum Buy Quantity	N/A
r_b - max.	1 mm
r_a - max.	2 mm
Calculation factor - e	0.68
Calculation factor - f	1.09
$r_{1,2}$ - min.	2 mm
$r_{3,4}$ - min.	1 mm
Harmonized Tariff Code	8482.10.50.28
Manufacturer Item Number	7218 ACD/P4A
Ball diameter D_w	22.225 mm
Basic dynamic load rating C	121 kN
Preload class A G_A	750 N
Preload class D G_D	6000 N
Preload class C G_C	3000 N
Basic dynamic load rating - C	121 kN

Preload class B G_B	1500 N
Preload class C - G_C	3000 N
Preload class A - G_A	750 N
Preload class D - G_D	6000 N
Preload class B - G_B	1500 N
Calculation factor f_1	0.99
Fatigue load limit P_u	4.05 kN
Calculation factor f_{2C}	1.02
Calculation factor f_{HC}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2D}	1.05
Calculation factor f_{2A}	1
Calculation factor - Y_0	0.76
Calculation factor - Y_2	1.41
Fatigue load limit - P_u	4 kN
Limiting speed for oil lubrication	12000 mm/min
Calculation factor - X_2	0.67
Calculation factor - Y_1	0.92
Calculation factor - f_1	0.99
Calculation factor - f_{2D}	1.05
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.02
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	7500 r/min
Basic static load rating C_0	106 kN
Attainable speed for grease lubrication	7500 r/min

Static axial stiffness, preload class D	632 N/μm
Static axial stiffness, preload class C	469 N/μm
Static axial stiffness, preload class B	355 N/μm
Static axial stiffness, preload class A	273 N/μm
Attainable speed for oil- air lubrication	12000 r/min
Basic static load rating - C_0	106 kN
Reference grease quantity G_{ref}	27.765 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