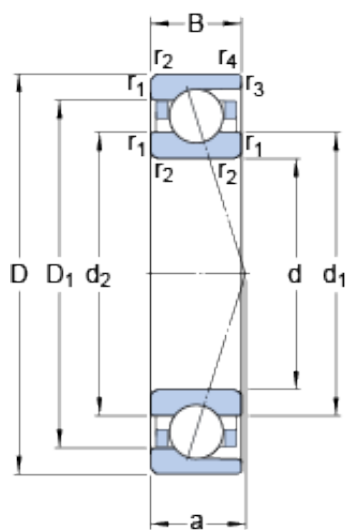




Bearing No. 7218 CD/HCP4A

a	31.9 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	4.189
Flush Ground	No
Mass bearing	1.83 kg
d ₁	111.6 mm
d ₂	111.6 mm
D ₁	138.4 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d _n	117.5 mm
Product Group	B04270
Contact Angle	15 Degree
D ₁	138.4 mm
d	117.5 mm

n	
d ₂	111.6 mm
d ₁	111.6 mm
Bearing number	7218 CD/HCP4A
Keyword String	Ball Angular Contact
Other Features	Single Row Angular Contact High Capacity Basic Design
Preload class B	171 N/micron
Rolling Element	Ball Bearing
Material - Ball	Ceramic
Precision Class	ABEC 7 ISO P4
G _{ref}	27.765 cm3
Preload class C	239 N/micron
Preload class D	349 N/micron
Preload class A	126 N/micron
Outside Diameter	6.299 Inch 160 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	90MM Bore; 160MM Outside Diameter; 30MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Ceramic Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R
Manufacturer Name	SKF
Number of balls z	16
Weight / Kilogram	0
d _a min.	101 mm
d _b min.	101 mm
Bore Diameter (mm)	160

Number of Bearings	1 (Single)
r_b max.	1 mm
r_a max.	2 mm
D_a max.	149 mm
D_b max.	154.4 mm
Outer Diameter (mm)	90
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
d_a - min.	101 mm
Calculation factor f	1.09
d_b - min.	101 mm
Ball - D_w	22.225 mm
D_a - max.	149 mm
Minimum Buy Quantity	N/A
r_a - max.	2 mm
r_b - max.	1 mm
D_b - max.	154.4 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.09
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2 mm
Manufacturer Item Number	7218 CD/HCP4A
Basic dynamic load rating C	127 kN
Ball diameter D_w	22.225 mm
Preload class B G_B	960 N
Preload class A G_A	480 N
Preload class C G_C	1920 N
Preload class D G_D	3840 N
Basic dynamic load rating - C	127 kN
Preload class B - G_B	960 N

Preload class C - G_C	1920 N
Preload class A - G_A	480 N
Preload class D - G_D	3840 N
Calculation factor f_1	1
Fatigue load limit P_u	4.25 kN
Calculation factor f_0	14.6
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.03
Calculation factor f_{2D}	1.06
Calculation factor f_{HC}	1.01
Calculation factor - f_0	14.6
Fatigue load limit - P_u	4.2 kN
Limiting speed for oil lubrication	16000 mm/min
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.06
Calculation factor - f_{HC}	1.01
Limiting speed for grease lubrication	10000 r/min
Basic static load rating C_0	112 kN
Static axial stiffness, preload class A	126 N/ μ m
Static axial stiffness, preload class B	171 N/ μ m
Static axial stiffness, preload class C	239 N/ μ m
Static axial stiffness,	349 N/ μ m

preload class D	
Attainable speed for grease lubrication	10000 r/min
Attainable speed for oil-air lubrication	16000 r/min
Basic static load rating - C_0	112 kN
Reference grease quantity G_{ref}	27.765 cm ³