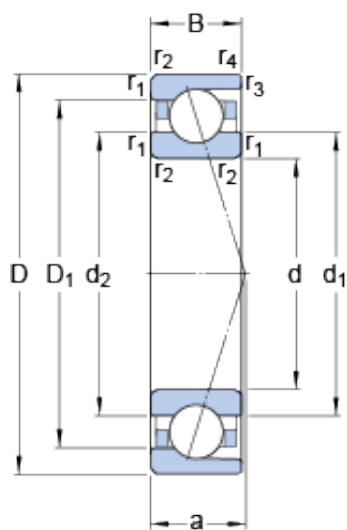




Bearing No. 7018 CD/P4A

a	27.5 mm
d	90 mm
D	140 mm
B	24 mm
Noun	Bearing
Bore	3.543 Inch 90 Millimeter
Width	0.945 Inch 24 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	20
Category	Precision Ball Bearings
Size (mm)	140x90x24
Enclosure	Open
Inventory	0.0
Width (mm)	24
Weight / LBS	2.615
Flush Ground	No
Mass bearing	1.16 kg
d ₁	105.4 mm
d ₂	105.4 mm
D ₁	124.6 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d _n	108.7 mm
Product Group	B04270
Contact Angle	15 Degree
D ₁	124.6 mm
d	108.7 mm

n	
d ₂	105.4 mm
d ₁	105.4 mm
Bearing number	7018 CD/P4A
Keyword String	Angular Contact Ball
Other Features	Single Row Angular Contact High Precision
Preload class B	141 N/micron
Rolling Element	Ball Bearing
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
G _{ref}	15 cm3
Preload class C	198 N/micron
Preload class D	287 N/micron
Preload class A	103 N/micron
Outside Diameter	5.512 Inch 140 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	90MM Bore; 140MM Outside Diameter; 24MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearings; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra
Manufacturer Name	SKF
Number of balls z	20
Weight / Kilogram	1.19
d _a min.	97 mm
d _b min.	97 mm
Bore Diameter (mm)	140
Number of Bearings	1 (Single)

r_b max.	1 mm
r_a max.	1.5 mm
D_a max.	133 mm
D_b max.	136 mm
Outer Diameter (mm)	90
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	1 mm
d_a - min.	97 mm
Calculation factor f	1.14
d_b - min.	97 mm
Ball - D_w	15.875 mm
D_a - max.	133 mm
Minimum Buy Quantity	N/A
r_a - max.	1.5 mm
r_b - max.	1 mm
D_b - max.	136 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.14
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	1.5 mm
Manufacturer Item Number	7018 CD/P4A
Basic dynamic load rating C	79.3 kN
Ball diameter D_w	15.875 mm
Preload class B G_B	600 N
Preload class A G_A	300 N
Preload class C G_C	1200 N
Preload class D G_D	2400 N
Basic dynamic load rating - C	79.3 kN
Preload class B - G_B	600 N
Preload class C - G_C	1200 N

Preload class A - G_A	300 N
Preload class D - G_D	2400 N
Calculation factor f_1	1
Fatigue load limit P_u	3 kN
Calculation factor f_0	15.6
Calculation factor - f	1
Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.09
Calculation factor f_{HC}	1
Calculation factor - f_0	15.6
Fatigue load limit - P_u	3 kN
Limiting speed for oil lubrication	15000 mm/min
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2A}	1
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.09
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	9000 r/min
Basic static load rating C_0	76.5 kN
Static axial stiffness, preload class A	103 N/ μ m
Static axial stiffness, preload class B	141 N/ μ m
Static axial stiffness, preload class C	198 N/ μ m
Static axial stiffness, preload class D	287 N/ μ m

Attainable speed for grease lubrication	9000 r/min
Attainable speed for oil-air lubrication	15000 r/min
Basic static load rating - C_0	76.5 kN
Reference grease quantity G_{ref}	15 cm ³