



Bearing No. 7030 CD/P4A

a	42.7 mm
d	150 mm
D	225 mm
B	35 mm
Bore	5.906 Inch 150 Millimeter
Noun	Bearing
Width	1.378 Inch 35 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	22
Category	Precision Ball Bearings
Size (mm)	225x150x35
Enclosure	Open
Inventory	0.0
Width (mm)	35
Weight / LBS	10.428
Flush Ground	No
Mass bearing	4.17 kg
d ₁	173.1 mm
d ₂	173.1 mm
D ₁	201.9 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d _n	178.2 mm
Product Group	B04270
Contact Angle	15 Degree
D ₁	201.9 mm
d	178.2 mm

n	
d ₂	173.1 mm
d ₁	173.1 mm
Bearing number	7030 CD/P4A
Keyword String	Angular Contact Ball
Other Features	Single Row Angular Contact High Precision
Preload class B	221 N/micron
Rolling Element	Ball Bearing
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
G _{ref}	54 cm3
Preload class C	310 N/micron
Preload class D	449 N/micron
Preload class A	163 N/micron
Outside Diameter	8.858 Inch 225 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	150MM Bore; 225MM Outside Diameter; 35MM 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 R
Manufacturer Name	SKF
Number of balls z	22
Weight / Kilogram	4.734
d _a min.	161 mm
d _b min.	161 mm
Bore Diameter (mm)	225
Number of Bearings	1 (Single)

r_b max.	1 mm
r_a max.	2 mm
D_a max.	214 mm
D_b max.	220 mm
Outer Diameter (mm)	150
$r_{1,2}$ min.	2.1 mm
$r_{3,4}$ min.	1 mm
d_a - min.	161 mm
Calculation factor f	1.16
d_b - min.	161 mm
Ball - D_w	23.812 mm
D_a - max.	214 mm
r_a - max.	2 mm
r_b - max.	1 mm
D_b - max.	220 mm
Minimum Buy Quantity	N/A
$r_{1,2}$ - min.	2.1 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.16
$r_{3,4}$ - min.	1 mm
Manufacturer Item Number	7030 CD/P4A
Basic dynamic load rating C	172 kN
Ball diameter D_w	23.812 mm
Preload class B G_B	1300 N
Preload class A G_A	650 N
Preload class C G_C	2600 N
Preload class D G_D	5200 N
Basic dynamic load rating - C	172 kN
Preload class B - G_B	1300 N
Preload class C - G_C	2600 N

Preload class A - G_A	650 N
Preload class D - G_D	5200 N
Calculation factor f_1	1
Fatigue load limit P_u	5.85 kN
Calculation factor f_0	15.8
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	15.8
Fatigue load limit - P_u	5.8 kN
Limiting speed for oil lubrication	9000 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	6000 r/min
Basic static load rating C_0	190 kN
Static axial stiffness, preload class A	163 N/ μ m
Static axial stiffness, preload class B	221 N/ μ m
Static axial stiffness, preload class C	310 N/ μ m
Static axial stiffness, preload class D	449 N/ μ m

Attainable speed for grease lubrication	6000 r/min
Attainable speed for oil-air lubrication	9000 r/min
Basic static load rating - C_0	190 kN
Reference grease quantity G_{ref}	54 cm ³