



Bearing No. 7022 CD/P4A

a	32.9 mm
d	110 mm
D	170 mm
B	28 mm
Noun	Bearing
Bore	4.331 Inch   110 Millimeter
Width	1.102 Inch   28 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	20
Category	Precision Ball Bearings
Size (mm)	170x110x28
Enclosure	Open
Inventory	0.0
Width (mm)	28
Weight / LBS	4.564
Flush Ground	No
Mass bearing	1.97 kg
$d_1$	128.5 mm
$d_2$	128.5 mm
$D_1$	151.5 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
$d_n$	132.6 mm
Product Group	B04270
Contact Angle	15 Degree
$D_1$	151.5 mm
d	132.6 mm

n	
d <sub>2</sub>	128.5 mm
d <sub>1</sub>	128.5 mm
Bearing number	7022 CD/P4A
Keyword String	Angular Contact Ball
Other Features	Single Row   Angular Contact   High Precision
Preload class B	166 N/micron
Rolling Element	Ball Bearing
Material - Ball	Steel
Precision Class	ABEC 7   ISO P4
G <sub>ref</sub>	25.5 cm3
Preload class C	232 N/micron
Preload class D	337 N/micron
Preload class A	122 N/micron
Outside Diameter	6.693 Inch   170 Millimeter
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Long Description	110MM Bore; 170MM Outside Diameter; 28MM 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	20
Weight / Kilogram	2.072
d <sub>a</sub> min.	119 mm
d <sub>b</sub> min.	119 mm
Bore Diameter (mm)	170
Number of Bearings	1 (Single)

$r_b$ max.	1 mm
$r_a$ max.	2 mm
$D_a$ max.	161 mm
$D_b$ max.	165 mm
Outer Diameter (mm)	110
$r_{1,2}$ min.	2 mm
$r_{3,4}$ min.	1 mm
$d_a$ - min.	119 mm
Calculation factor f	1.14
$d_b$ - min.	119 mm
Ball - $D_w$	19.05 mm
$D_a$ - max.	161 mm
Minimum Buy Quantity	N/A
$r_a$ - max.	2 mm
$r_b$ - max.	1 mm
$D_b$ - max.	165 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.14
$r_{3,4}$ - min.	1 mm
$r_{1,2}$ - min.	2 mm
Manufacturer Item Number	7022 CD/P4A
Basic dynamic load rating C	111 kN
Ball diameter $D_w$	19.05 mm
Preload class B $G_B$	840 N
Preload class A $G_A$	420 N
Preload class C $G_C$	1680 N
Preload class D $G_D$	3360 N
Basic dynamic load rating - C	111 kN
Preload class B - $G_B$	840 N
Preload class C - $G_C$	1680 N

Preload class A - $G_A$	420 N
Preload class D - $G_D$	3360 N
Calculation factor $f_1$	1
Fatigue load limit $P_u$	3.9 kN
Calculation factor $f_0$	15.5
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 - $f_0$	15.5
Fatigue load limit - $P_u$	3.9 kN
Limiting speed for oil lubrication	12000 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	7500 r/min
Basic static load rating $C_0$	108 kN
Static axial stiffness, preload class A	122 N/ $\mu$ m
Static axial stiffness, preload class B	166 N/ $\mu$ m
Static axial stiffness, preload class C	232 N/ $\mu$ m
Static axial stiffness, preload class D	337 N/ $\mu$ m

Attainable speed for grease lubrication	7500 r/min
Attainable speed for oil-air lubrication	12000 r/min
Basic static load rating - $C_0$	108 kN
Reference grease quantity $G_{ref}$	25.5 cm <sup>3</sup>