



Bearing No. 7022 ACD/P4A

D	170 mm
d	110 mm
B	28 mm
a	46.8 mm
Bore	4.331 Inch 110 Millimeter
Noun	Bearing
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
Flush Ground	No
Mass bearing	1.97 kg
d ₂	128.5 mm
Product Group	B04270
d _n	132.6 mm
d _n	132.6 mm
D ₁	151.5 mm
d ₂	128.5 mm
d ₁	128.5 mm
d ₁	128.5 mm
Inch - Metric	Metric
D ₁	151.5 mm
Cage Material	Phenolic

Raceway Style	1 Rib Outer Ring
Contact Angle	25 Degree
Keyword String	Ball Angular Contact
Other Features	Single Row Angular Contact High Capacity Basic Design
Bearing number	7022 ACD/P4A
Material - Ball	Steel
G _{ref}	25.5 cm3
Precision Class	ABEC 7 ISO P4
Rolling Element	Ball Bearing
Preload class D	681 N/micron
Preload class C	503 N/micron
Preload class B	379 N/micron
Preload class A	290 N/micron
Long Description	110MM Bore; 170MM Outside Diameter; 28MM Width; Open Enclosure; ABEC 7 ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 25 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring Ra
Manufacturer URL	http://www.skf.com
Outside Diameter	6.693 Inch 170 Millimeter
Number of balls z	20
Weight / Kilogram	1.93
Manufacturer Name	SKF
Bore Diameter (mm)	170
D _a max.	161 mm
d _b min.	119 mm
r _b max.	1 mm
r _a max.	2 mm

Number of Bearings	1 (Single)
D_b max.	165 mm
d_a min.	119 mm
Outer Diameter (mm)	110
D_a - max.	161 mm
Ball - D_w	19.05 mm
D_b - max.	165 mm
Calculation factor f	1.14
$r_{1,2}$ min.	2 mm
Minimum Buy Quantity	N/A
r_a - max.	2 mm
d_b - min.	119 mm
$r_{3,4}$ min.	1 mm
Calculation factor e	0.68
r_b - max.	1 mm
d_a - min.	119 mm
Calculation factor - e	0.68
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.14
$r_{1,2}$ - min.	2 mm
$r_{3,4}$ - min.	1 mm
Ball diameter D_w	19.05 mm
Basic dynamic load rating C	104 kN
Preload class B G_B	1300 N
Preload class D G_D	5200 N
Preload class A G_A	650 N
Basic dynamic load rating - C	104 kN
Preload class C G_C	2600 N
Preload class A - G_A	650 N
Preload class B - G_B	1300 N

Preload class C - G_C	2600 N
Preload class D - G_D	5200 N
Fatigue load limit P_u	3.75 kN
Calculation factor f_1	0.99
Calculation factor f_{HC}	1
Calculation factor f_{2D}	1.08
Calculation factor f_{2C}	1.05
Calculation factor f_{2B}	1.02
Calculation factor f_{2A}	1
Calculation factor - Y_1	0.92
Fatigue load limit - P_u	3.8 kN
Calculation factor - Y_2	1.41
Calculation factor - f_1	0.99
Calculation factor - X_2	0.67
Limiting speed for oil lubrication	11000 mm/min
Calculation factor - Y_0	0.76
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1
Limiting speed for grease lubrication	7000 r/min
Basic static load rating C_0	104 kN
Static axial stiffness, preload class C	503 N/ μ m
Static axial stiffness, preload class A	290 N/ μ m
Static axial stiffness, preload class D	681 N/ μ m

Attainable speed for grease lubrication	7000 r/min
Static axial stiffness, preload class B	379 N/ μ m
Basic static load rating - C_0	104 kN
Attainable speed for oil-air lubrication	11000 r/min
Reference grease quantity G_{ref}	25.5 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