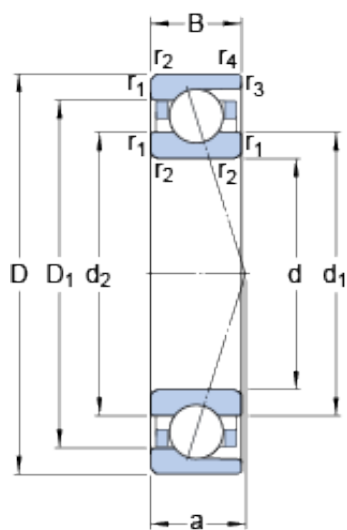




Bearing No. 7003 CD/P4A

a	8.5 mm
d	17 mm
D	35 mm
B	10 mm
Bore	0.669 Inch 17 Millimeter
Noun	Bearing
Width	0.394 Inch 10 Millimeter
UNSPSC	31171531
Preload	None
Ball - z	12
Category	Precision Ball Bearings
Size (mm)	35x17x10
Enclosure	Open
Inventory	0.0
Width (mm)	10
Weight / LBS	0.093
Flush Ground	No
Mass bearing	0.038 kg
d ₁	22.6 mm
d ₂	22.6 mm
D ₁	29.3 mm
Inch - Metric	Metric
Cage Material	Phenolic
Raceway Style	1 Rib Outer Ring
d _n	23.7 mm
Product Group	B04270
Contact Angle	15 Degree
D ₁	29.3 mm
d	23.7 mm

n	
d ₂	22.6 mm
d ₁	22.6 mm
Bearing number	7003 CD/P4A
Keyword String	Angular Contact Ball
Other Features	Single Row Angular Contact High Precision
Preload class B	26 N/micron
Rolling Element	Ball Bearing
Material - Ball	Steel
Precision Class	ABEC 7 ISO P4
G _{ref}	0.54 cm3
Preload class C	35 N/micron
Preload class D	50 N/micron
Preload class A	19 N/micron
Outside Diameter	1.378 Inch 35 Millimeter
Manufacturer URL	http://www.skf.com
Long Description	17MM Bore; 35MM Outside Diameter; 10MM 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 Rac
Manufacturer Name	SKF
Number of balls z	12
Weight / Kilogram	0.042
d _a min.	19 mm
d _b min.	19 mm
Bore Diameter (mm)	35
Number of Bearings	1 (Single)

r_b max.	0.2 mm
r_a max.	0.3 mm
D_a max.	33 mm
D_b max.	33.6 mm
Outer Diameter (mm)	17
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.2 mm
d_a - min.	19 mm
Calculation factor f	1.04
d_b - min.	19 mm
Ball - D_w	5.556 mm
D_a - max.	33 mm
r_a - max.	0.3 mm
r_b - max.	0.2 mm
D_b - max.	33.6 mm
Minimum Buy Quantity	N/A
$r_{1,2}$ - min.	0.3 mm
Harmonized Tariff Code	8482.10.50.28
Calculation factor - f	1.04
$r_{3,4}$ - min.	0.2 mm
Manufacturer Item Number	7003 CD/P4A
Basic dynamic load rating C	6.76 kN
Ball diameter D_w	5.556 mm
Preload class B G_B	50 N
Preload class A G_A	25 N
Preload class C G_C	100 N
Preload class D G_D	200 N
Basic dynamic load rating - C	6.8 kN
Preload class B - G_B	50 N
Preload class C - G_C	100 N

Preload class A - G_A	25 N
Preload class D - G_D	200 N
Calculation factor f_1	1
Fatigue load limit P_u	0.137 kN
Calculation factor f_0	9.1
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	9.1
Fatigue load limit - P_u	0.137 kN
Limiting speed for oil lubrication	75000 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	50000 r/min
Basic static load rating C_0	3.25 kN
Static axial stiffness, preload class A	19 N/ μ m
Static axial stiffness, preload class B	26 N/ μ m
Static axial stiffness, preload class C	35 N/ μ m
Static axial stiffness, preload class D	50 N/ μ m

Attainable speed for grease lubrication	50000 r/min
Attainable speed for oil-air lubrication	75000 r/min
Basic static load rating - C_0	3.2 kN
Reference grease quantity G_{ref}	0.54 cm ³