



7040 CD/P4A Bearing 2D drawings and 3D CAD models

200 mm x 310 mm x 51 mm SKF 7040 CD/P4A angular contact ball bearings

Bearing No. 7040 CD/P4A

Size	310x200x51 mm
Bore Diameter	310 mm
Outer Diameter	200 mm
Width	51 mm
d	200 mm
D	310 mm
B	51 mm
d ₁	233.9 mm
d ₂	233.9 mm
D ₁	276.1 mm
r _{1,2} - min.	2.1 mm
r _{3,4} - min.	1.1 mm
a	59.8 mm
d _a - min.	211 mm
d _b - min.	211 mm
D _a - max.	299 mm
D _b - max.	304 mm
r _a - max.	2 mm
r _b - max.	1 mm
d _n	243.2 mm
Basic dynamic load rating - C	296 kN
Basic static load rating - C ₀	390 kN
Fatigue load limit - P _u	10.2 kN
Limiting speed for grease	4500 r/min



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Lubrication	
Limiting speed for oil lubrication	6700 mm/min
Ball - D_w	34.925 mm
Ball - z	21
G_{ref}	153 cm ³
Calculation factor - f_0	15.6
Preload class A - G_A	1100 N
Preload class B - G_B	2200 N
Preload class C - G_C	4400 N
Preload class D - G_D	8800 N
Calculation factor - f	1.14
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
Preload class A	208 N/micron
Preload class B	280 N/micron
Preload class C	389 N/micron
Preload class D	556 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	13.18
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7 ISO P4



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Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	15 Degree
Preload	None
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row Angular Contact High Precision
Long Description	200MM Bore; 310MM Outside Diameter; 51MM 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
Category	Precision Ball Bearings
UNSPSC	31171531
Harmonized Tariff Code	8482.10.50.28
Noun	Bearing
Keyword String	Angular Contact Ball
Manufacturer URL	http://www.skf.com
Manufacturer Item Number	7040 CD/P4A
Weight / LBS	29.035
Outside Diameter	12.205 Inch 310 Millimeter
Bore	7.874 Inch 200 Millimeter
Width	2.008 Inch 51 Millimeter
d ₁	233.9 mm
d ₂	233.9 mm
D ₁	276.1 mm
r _{1,2} min.	2.1 mm

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$r_{3,4}$ min.	1.1 mm
d_a min.	211 mm
d_b min.	211 mm
D_a max.	299 mm
D_b max.	304 mm
r_a max.	2 mm
r_b max.	1 mm
d_n	243.2 mm
Basic dynamic load rating C	296 kN
Basic static load rating C_0	390 kN
Fatigue load limit P_u	10.2 kN
Attainable speed for grease lubrication	4500 r/min
Attainable speed for oil-air lubrication	6700 r/min
Ball diameter D_w	34.925 mm
Number of balls z	21
Reference grease quantity G_{ref}	153 cm ³
Preload class A G_A	1100 N
Static axial stiffness, preload class A	208 N/ μ m
Preload class B G_B	2200 N
Static axial stiffness, preload class B	280 N/ μ m
Preload class C G_C	4400 N
Static axial stiffness, preload class C	389 N/ μ m
Preload class D G_D	8800 N
Static axial stiffness, preload class D	556 N/ μ m
Calculation factor f	1.14
Calculation factor f_1	1
Calculation factor f_{2A}	1



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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
Mass bearing	12.3 kg