



7012 CD/P4A Bearing 2D drawings and 3D CAD models

7012 CD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 7012 CD/P4A

Size	95x60x18 mm
Bore Diameter	95 mm
Outer Diameter	60 mm
Width	18 mm
d	60 mm
D	95 mm
B	18 mm
d ₁	70.8 mm
d ₂	70.8 mm
D ₁	84.2 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	19.4 mm
d _a - min.	66 mm
d _b - min.	66 mm
D _a - max.	89 mm
D _b - max.	91.8 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
d _n	73.1 mm
Basic dynamic load rating - C	40.3 kN
Basic static load rating - C ₀	34.5 kN
Fatigue load limit - P _u	1.5 kN
Limiting speed for grease	14000 r/min



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Lubrication	
Limiting speed for oil lubrication	22000 mm/min
Ball - D_w	11.112 mm
Ball - z	19
G_{ref}	5.4 cm ³
Calculation factor - f_0	15.4
Preload class A - G_A	150 N
Preload class B - G_B	300 N
Preload class C - G_C	600 N
Preload class D - G_D	1200 N
Calculation factor - f	1.12
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	70 N/micron
Preload class B	95 N/micron
Preload class C	133 N/micron
Preload class D	193 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.42
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	60MM Bore; 95MM Outside Diameter; 18MM 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
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	7012 CD/P4A
Weight / LBS	0.922
Outside Diameter	3.74 Inch 95 Millimeter
Bore	2.362 Inch 60 Millimeter
Width	0.709 Inch 18 Millimeter
d ₁	70.8 mm
d ₂	70.8 mm
D ₁	84.2 mm
r _{1,2} min.	1.1 mm



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$r_{3,4}$ min.	0.6 mm
d_a min.	66 mm
d_b min.	66 mm
D_a max.	89 mm
D_b max.	91.8 mm
r_a max.	1 mm
r_b max.	0.6 mm
d_n	73.1 mm
Basic dynamic load rating C	40.3 kN
Basic static load rating C_0	34.5 kN
Fatigue load limit P_u	1.5 kN
Attainable speed for grease lubrication	14000 r/min
Attainable speed for oil-air lubrication	22000 r/min
Ball diameter D_w	11.112 mm
Number of balls z	19
Reference grease quantity G_{ref}	5.4 cm ³
Preload class A G_A	150 N
Static axial stiffness, preload class A	70 N/ μ m
Preload class B G_B	300 N
Static axial stiffness, preload class B	95 N/ μ m
Preload class C G_C	600 N
Static axial stiffness, preload class C	133 N/ μ m
Preload class D G_D	1200 N
Static axial stiffness, preload class D	193 N/ μ m
Calculation factor f	1.12
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	15.4
Mass bearing	0.4 kg