



7212 CD/P4A Bearing 2D drawings and 3D CAD models

7212 CD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. 7212 CD/P4A

Size	110x60x22 mm
Bore Diameter	110 mm
Outer Diameter	60 mm
Width	22 mm
d	60 mm
D	110 mm
B	22 mm
d ₁	76.4 mm
d ₂	76.4 mm
D ₁	93.6 mm
r _{1,2} - min.	1.5 mm
r _{3,4} - min.	0.6 mm
a	22.5 mm
d _a - min.	69 mm
d _b - min.	69 mm
D _a - max.	101 mm
D _b - max.	105.8 mm
r _a - max.	1.5 mm
r _b - max.	0.6 mm
d _n	80.1 mm
Basic dynamic load rating - C	57.2 kN
Basic static load rating - C ₀	46.5 kN
Fatigue load limit - P _u	2 kN
Limiting speed for grease	13000 r/min



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Lubrication	
Limiting speed for oil lubrication	20000 mm/min
Ball - D_w	14.288 mm
Ball - z	16
G_{ref}	10.08 cm3
Calculation factor - f_0	14.9
Preload class A - G_A	215 N
Preload class B - G_B	430 N
Preload class C - G_C	860 N
Preload class D - G_D	1720 N
Calculation factor - f	1.07
Calculation factor - f	1
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.01
Calculation factor - f_{2C}	1.03
Calculation factor - f_{2D}	1.05
Calculation factor - f_{HC}	1
Preload class A	75 N/micron
Preload class B	102 N/micron
Preload class C	142 N/micron
Preload class D	205 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.831
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 Super Precision High Capacity
Long Description	60MM Bore; 110MM Outside Diameter; 22MM 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 Ra
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	7212 CD/P4A
Weight / LBS	1.828
Outside Diameter	4.331 Inch 110 Millimeter
Bore	2.362 Inch 60 Millimeter
Width	0.866 Inch 22 Millimeter
d ₁	76.4 mm
d ₂	76.4 mm
D ₁	93.6 mm



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$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	69 mm
d_b min.	69 mm
D_a max.	101 mm
D_b max.	105.8 mm
r_a max.	1.5 mm
r_b max.	0.6 mm
d_n	80.1 mm
Basic dynamic load rating C	57.2 kN
Basic static load rating C_0	46.5 kN
Fatigue load limit P_u	2 kN
Attainable speed for grease lubrication	13000 r/min
Attainable speed for oil-air lubrication	20000 r/min
Ball diameter D_w	14.288 mm
Number of balls z	16
Reference grease quantity G_{ref}	10.08 cm ³
Preload class A G_A	215 N
Static axial stiffness, preload class A	75 N/ μ m
Preload class B G_B	430 N
Static axial stiffness, preload class B	102 N/ μ m
Preload class C G_C	860 N
Static axial stiffness, preload class C	142 N/ μ m
Preload class D G_D	1720 N
Static axial stiffness, preload class D	205 N/ μ m
Calculation factor f	1.07
Calculation factor f_1	1



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Calculation factor f_{2A}	1
Calculation factor f_{2B}	1.01
Calculation factor f_{2C}	1.03
Calculation factor f_{2D}	1.05
Calculation factor f_{HC}	1
Calculation factor f_0	14.9
Mass bearing	0.81 kg