



# YYH Bearing & Drivetrain Co., Ltd.



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

60 mm x 110 mm x 22 mm SKF 7212 CD/P4A  
double direction angular contact thrust 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 <sub>1</sub>	76.4 mm
d <sub>2</sub>	76.4 mm
D <sub>1</sub>	93.6 mm
r <sub>1,2</sub> - min.	1.5 mm
r <sub>3,4</sub> - min.	0.6 mm
a	22.5 mm
d <sub>a</sub> - min.	69 mm
d <sub>b</sub> - min.	69 mm
D <sub>a</sub> - max.	101 mm
D <sub>b</sub> - max.	105.8 mm
r <sub>a</sub> - max.	1.5 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	80.1 mm
Basic dynamic load rating - C	57.2 kN
Basic static load rating - C <sub>0</sub>	46.5 kN
Fatigue load limit - P <sub>u</sub>	2 kN



## YYH Bearing&Drivetrain Co., Ltd.

Limiting speed for grease lubrication	13000 r/min
Limiting speed for oil lubrication	20000 mm/min
Ball - $D_w$	14.288 mm
Ball - z	16
$G_{ref}$	10.08 cm <sup>3</sup>
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
EAN	7316570190069
Product Group	B04270
Enclosure	Open



## YYH Bearing&Drivetrain Co., Ltd.

Precision Class	ABEC 7   ISO P4
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	<a href="http://www.skf.com">http://www.skf.com</a>
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 <sub>1</sub>	76.4 mm
d <sub>2</sub>	76.4 mm



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$D_1$	93.6 mm
$r_{1,2}$ 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 <sup>3</sup>
Preload class A $G_A$	215 N
Static axial stiffness, preload class A	75 N/μm
Preload class B $G_B$	430 N
Static axial stiffness, preload class B	102 N/μm
Preload class C $G_C$	860 N
Static axial stiffness, preload class C	142 N/μm
Preload class D $G_D$	1720 N
Static axial stiffness, preload class D	205 N/μm
Calculation factor f	1.07



## YYH Bearing&Drivetrain Co., Ltd.

Calculation factor $f_1$	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
Calculation factor $f_0$	14.9
Mass bearing	0.81 kg