



7214 CD/P4A Bearing 2D drawings and 3D CAD models

70 mm x 125 mm x 24 mm SKF 7214 CD/P4A angular contact ball bearings

Bearing No. 7214 CD/P4A

Size	125x70x24 mm
Bore Diameter	125 mm
Outer Diameter	70 mm
Width	24 mm
d	70 mm
D	125 mm
B	24 mm
d <sub>1</sub>	87.9 mm
d <sub>2</sub>	87.9 mm
D <sub>1</sub>	107.1 mm
r <sub>1,2</sub> - min.	1.5 mm
r <sub>3,4</sub> - min.	0.6 mm
a	25.1 mm
d <sub>a</sub> - min.	79 mm
d <sub>b</sub> - min.	79 mm
D <sub>a</sub> - max.	116 mm
D <sub>b</sub> - max.	120.8 mm
r <sub>a</sub> - max.	1.5 mm
r <sub>b</sub> - max.	0.6 mm
d <sub>n</sub>	91.6 mm
Basic dynamic load rating - C	68.9 kN
Basic static load rating - C <sub>0</sub>	58.5 kN
Fatigue load limit - P <sub>u</sub>	2.4 kN
Limiting speed for grease	11000 r/min



## Shandong ZXY Bearing Science & Techno...

Lubrication	
Limiting speed for oil lubrication	18000 mm/min
Ball - $D_w$	15.875 mm
Ball - $z$	16
$G_{ref}$	13.701 cm <sup>3</sup>
Calculation factor - $f_0$	14.8
Preload class A - $G_A$	260 N
Preload class B - $G_B$	520 N
Preload class C - $G_C$	1040 N
Preload class D - $G_D$	2080 N
Calculation factor - $f$	1.08
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	83 N/micron
Preload class B	112 N/micron
Preload class C	156 N/micron
Preload class D	225 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	1.13
EAN	7316570948462
Product Group	B04270
Enclosure	Open



## Shandong ZXY Bearing Science & Techno...

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	70MM Bore; 125MM Outside Diameter; 24MM 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	7214 CD/P4A
Weight / LBS	2.498
Outside Diameter	4.921 Inch   125 Millimeter
Width	0.945 Inch   24 Millimeter
Bore	2.756 Inch   70 Millimeter
d <sub>1</sub>	87.9 mm
d <sub>2</sub>	87.9 mm



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$D_1$	107.1 mm
$r_{1,2}$ min.	1.5 mm
$r_{3,4}$ min.	0.6 mm
$d_a$ min.	79 mm
$d_b$ min.	79 mm
$D_a$ max.	116 mm
$D_b$ max.	120.8 mm
$r_a$ max.	1.5 mm
$r_b$ max.	0.6 mm
$d_n$	91.6 mm
Basic dynamic load rating C	68.9 kN
Basic static load rating $C_0$	58.5 kN
Fatigue load limit $P_u$	2.45 kN
Attainable speed for grease lubrication	11000 r/min
Attainable speed for oil-air lubrication	18000 r/min
Ball diameter $D_w$	15.875 mm
Number of balls z	16
Reference grease quantity $G_{ref}$	13.701 cm <sup>3</sup>
Preload class A $G_A$	260 N
Static axial stiffness, preload class A	83 N/ $\mu$ m
Preload class B $G_B$	520 N
Static axial stiffness, preload class B	112 N/ $\mu$ m
Preload class C $G_C$	1040 N
Static axial stiffness, preload class C	156 N/ $\mu$ m
Preload class D $G_D$	2080 N
Static axial stiffness, preload class D	225 N/ $\mu$ m
Calculation factor f	1.08



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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 $f_0$	14.8
Mass bearing	1.11 kg