



# Jinan Shenglei Bearing Co., Ltd.



7028 CD/P4A Bearing 2D drawings and 3D CAD models

140 mm x 210 mm x 33 mm SKF 7028 CD/P4A  
Angular contact ball bearing

Bearing No. 7028 CD/P4A

Size	210x140x33 mm
Bore Diameter	210 mm
Outer Diameter	140 mm
Width	33 mm
d	140 mm
D	210 mm
B	33 mm
d <sub>1</sub>	161.6 mm
d <sub>2</sub>	161.6 mm
D <sub>1</sub>	188.4 mm
r <sub>1,2</sub> - min.	2 mm
r <sub>3,4</sub> - min.	1 mm
a	40.1 mm
d <sub>a</sub> - min.	149 mm
d <sub>b</sub> - min.	149 mm
D <sub>a</sub> - max.	201 mm
D <sub>b</sub> - max.	205 mm
r <sub>a</sub> - max.	2 mm
r <sub>b</sub> - max.	1 mm
d <sub>n</sub>	166.3 mm
Basic dynamic load rating - C	153 kN
Basic static load rating - C <sub>0</sub>	166 kN
Fatigue load limit - P <sub>u</sub>	5.3 kN
Limiting speed for grease	6700 r/min



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Lubrication	
Limiting speed for oil lubrication	10000 mm/min
Ball - $D_w$	22.225 mm
Ball - $z$	22
$G_{ref}$	45 cm <sup>3</sup>
Calculation factor - $f_0$	15.8
Preload class A - $G_A$	570 N
Preload class B - $G_B$	1140 N
Preload class C - $G_C$	2280 N
Preload class D - $G_D$	4560 N
Calculation factor - $f$	1.16
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	151 N/micron
Preload class B	206 N/micron
Preload class C	289 N/micron
Preload class D	418 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
Product Group	B04270
Enclosure	Open
Precision Class	ABEC 7   ISO P4



## Jinan Shenglei Bearing Co., Ltd.

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 Capacity Basic Design
Long Description	140MM Bore; 210MM Outside Diameter; 33MM Width; Open Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 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	Ball Angular Contact
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Outside Diameter	8.268 Inch   210 Millimeter
Bore	5.512 Inch   140 Millimeter
Width	1.299 Inch   33 Millimeter
d <sub>1</sub>	161.6 mm
d <sub>2</sub>	161.6 mm
D <sub>1</sub>	188.4 mm
r <sub>1,2</sub> min.	2 mm
r <sub>3,4</sub> min.	1 mm



## Jinan Shenglei Bearing Co., Ltd.

$d_a$ min.	149 mm
$d_b$ min.	149 mm
$D_a$ max.	201 mm
$D_b$ max.	205 mm
$r_a$ max.	2 mm
$r_b$ max.	1 mm
$d_n$	166.3 mm
Basic dynamic load rating C	153 kN
Basic static load rating $C_0$	166 kN
Fatigue load limit $P_u$	5.3 kN
Attainable speed for grease lubrication	6700 r/min
Attainable speed for oil-air lubrication	10000 r/min
Ball diameter $D_w$	22.225 mm
Number of balls z	22
Reference grease quantity $G_{ref}$	45 cm <sup>3</sup>
Preload class A $G_A$	570 N
Static axial stiffness, preload class A	151 N/ $\mu$ m
Preload class B $G_B$	1140 N
Static axial stiffness, preload class B	206 N/ $\mu$ m
Preload class C $G_C$	2280 N
Static axial stiffness, preload class C	289 N/ $\mu$ m
Preload class D $G_D$	4560 N
Static axial stiffness, preload class D	418 N/ $\mu$ m
Calculation factor f	1.16
Calculation factor $f_1$	1
Calculation factor $f_{2A}$	1
Calculation factor $f_{2B}$	1.02



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Calculation factor $f_{2C}$	1.05
Calculation factor $f_{2D}$	1.09
Calculation factor $f_{HC}$	1
Calculation factor $f_0$	15.8
Mass bearing	3.42 kg