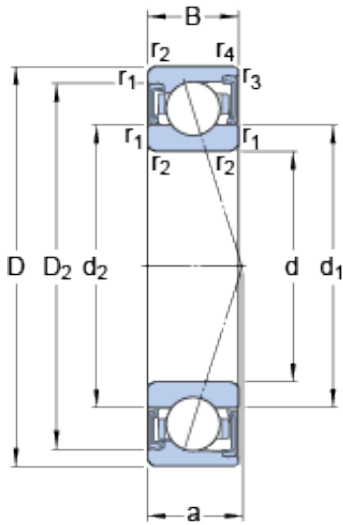




# ROLLWAY BEARING Sales Co., Ltd.



## S7011 CD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7011 CD/P4A

S7011 CD/P4A Bearing 2D drawings and 3D CAD models

Size	90x55x18 mm
Bore Diameter	90 mm
Outer Diameter	55 mm
Width	18 mm
d	55 mm
D	90 mm
B	18 mm
d <sub>1</sub>	65.8 mm
d <sub>2</sub>	65.8 mm
D <sub>2</sub>	81.8 mm
r <sub>1,2</sub> - min.	1.1 mm
r <sub>3,4</sub> - min.	0.6 mm
a	18.8 mm
d <sub>a</sub> - min.	61 mm
d <sub>a</sub> - max.	65.2 mm
d <sub>b</sub> - min.	61 mm
d <sub>b</sub> - max.	65.2 mm
D <sub>a</sub> - max.	84 mm
D <sub>b</sub> - max.	86.8 mm
r <sub>a</sub> - max.	1 mm
r <sub>b</sub> - max.	0.6 mm
Basic dynamic load rating - C	39.7 kN
Basic static load rating - C <sub>0</sub>	32.5 kN
Fatigue load limit - P <sub>u</sub>	1.4 kN



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Limiting speed for grease lubrication	15000 r/min
Ball - $D_w$	11.112 mm
Ball - z	18
Calculation factor - $f_0$	15.1
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	1.1
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	67 N/micron
Preload class B	91 N/micron
Preload class C	128 N/micron
Preload class D	186 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0
Product Group	B04270
Enclosure	2 Seals
Precision Class	ABEC 7   ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	15 Degree



## ROLLWAY BEARING Sales Co., Ltd.

Preload	None
Raceway Style	1 Rib Outer Ring
Cage Material	Phenolic
Rolling Element	Ball Bearing
Enclosure Type	Non Contact Seal
Flush Ground	No
Inch - Metric	Metric
Other Features	Single Row   Angular Contact   Super Precision   High Capacity Basic Design
Long Description	55MM Bore; 90MM Outside Diameter; 18MM Width; 2 Seals Enclosure; ABEC 7   ISO P4 Precision; Steel Ball Material; 1 (Single) Bearing; 15 Degree Contact Angle; Phenolic Cage Material; 1 Rib Outer Ring R
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>
Bore	2.165 Inch   55 Millimeter
Outside Diameter	3.543 Inch   90 Millimeter
Width	0.709 Inch   18 Millimeter
d <sub>1</sub>	65.8 mm
d <sub>2</sub>	65.8 mm
D <sub>2</sub>	81.8 mm
r <sub>1,2</sub> min.	1.1 mm
r <sub>3,4</sub> min.	0.6 mm
d <sub>a</sub> min.	61 mm
d <sub>a</sub> max.	65.2 mm



## ROLLWAY BEARING Sales Co., Ltd.

$d_b$ min.	61 mm
$d_b$ max.	65.2 mm
$D_a$ max.	84 mm
$D_b$ max.	86.8 mm
$r_a$ max.	1 mm
$r_b$ max.	0.6 mm
Basic dynamic load rating C	39.7 kN
Basic static load rating $C_0$	32.5 kN
Fatigue load limit $P_u$	1.37 kN
Attainable speed for grease lubrication	15000 r/min
Ball diameter $D_w$	11.112 mm
Number of balls z	18
Preload class A $G_A$	150 N
Static axial stiffness, preload class A	67 N/ $\mu$ m
Preload class B $G_B$	300 N
Static axial stiffness, preload class B	91 N/ $\mu$ m
Preload class C $G_C$	600 N
Static axial stiffness, preload class C	128 N/ $\mu$ m
Preload class D $G_D$	1200 N
Static axial stiffness, preload class D	186 N/ $\mu$ m
Calculation factor f	1.1
Calculation factor $f_1$	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
Calculation factor $f_0$	15.1
Mass bearing	0.38 kg



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