



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 ₁	65.8 mm
d ₂	65.8 mm
D ₂	81.8 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	18.8 mm
d _a - min.	61 mm
d _a - max.	65.2 mm
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	1.4 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



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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	http://www.skf.com
Bore	2.165 Inch 55 Millimeter
Outside Diameter	3.543 Inch 90 Millimeter
Width	0.709 Inch 18 Millimeter
d ₁	65.8 mm
d ₂	65.8 mm
D ₂	81.8 mm
r _{1,2} min.	1.1 mm
r _{3,4} min.	0.6 mm
d _a min.	61 mm
d _a max.	65.2 mm



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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/ μ m
Preload class B G_B	300 N
Static axial stiffness, preload class B	91 N/ μ m
Preload class C G_C	600 N
Static axial stiffness, preload class C	128 N/ μ m
Preload class D G_D	1200 N
Static axial stiffness, preload class D	186 N/ μ 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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