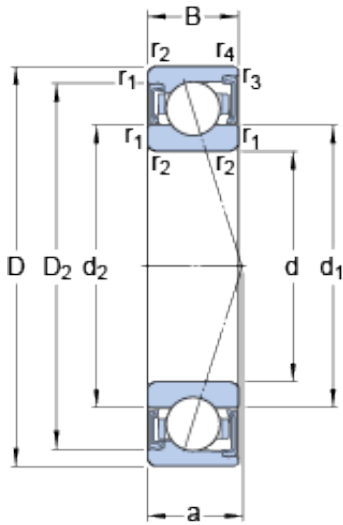




NTL BEARINGS LTD.

S7014 ACD/P4A SKF High Speed Angular Contact Ball Bearings

Bearing No. S7014 ACD/P4A



S7014 ACD/P4A Bearing 2D drawings and 3D CAD models

Size	110x70x20 mm
Bore Diameter	110 mm
Outer Diameter	70 mm
Width	20 mm
d	70 mm
D	110 mm
B	20 mm
d ₁	82.3 mm
d ₂	82.3 mm
D ₂	100.64 mm
r _{1,2} - min.	1.1 mm
r _{3,4} - min.	0.6 mm
a	31.1 mm
d _a - min.	76 mm
d _a - max.	81.7 mm
d _b - min.	76 mm
d _b - max.	81.7 mm
D _a - max.	104 mm
D _b - max.	106 mm
r _a - max.	1 mm
r _b - max.	0.6 mm
Basic dynamic load rating - C	48.8 kN
Basic static load rating - C ₀	44 kN
Fatigue load limit - P _u	1.9 kN



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Limiting speed for grease lubrication	11000 r/min
Ball - D_w	12.7 mm
Ball - z	19
Calculation factor - e	0.68
Calculation factor - Y_2	0.87
Calculation factor - Y_0	0.38
Calculation factor - X_2	0.41
Calculation factor - Y_1	0.92
Calculation factor - Y_2	1.41
Calculation factor - Y_0	0.76
Calculation factor - X_2	0.67
Preload class A - G_A	300 N
Preload class B - G_B	600 N
Preload class C - G_C	1200 N
Preload class D - G_D	2400 N
Calculation factor - f	1.12
Calculation factor - f_1	0.99
Calculation factor - f_{2A}	1
Calculation factor - f_{2B}	1.02
Calculation factor - f_{2C}	1.05
Calculation factor - f_{2D}	1.08
Calculation factor - f_{HC}	1
Preload class A	191 N/micron
Preload class B	249 N/micron
Preload class C	330 N/micron
Preload class D	447 N/micron
Category	Precision Ball Bearings
Inventory	0.0
Manufacturer Name	SKF



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Minimum Buy Quantity	N/A
Weight / Kilogram	0.591
Product Group	B04270
Enclosure	2 Seals
Precision Class	ABEC 7 ISO P4
Material - Ball	Steel
Number of Bearings	1 (Single)
Contact Angle	25 Degree
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
Long Description	70MM Bore; 110MM Outside Diameter; 20MM Width; 2 Seals; ISO P4; Single; Phenolic Cage
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
Manufacturer Item Number	S7014 ACD/P4A
Weight / LBS	1.301
Bore	2.756 Inch 70 Millimeter
Width	0.787 Inch 20 Millimeter
Outside Diameter	4.331 Inch 110 Millimeter
d ₁	82.3 mm



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d_2	82.3 mm
D_2	100.64 mm
$r_{1,2}$ min.	1.1 mm
$r_{3,4}$ min.	0.6 mm
d_a min.	76 mm
d_a max.	81.7 mm
d_b min.	76 mm
d_b max.	81.7 mm
D_a max.	104 mm
D_b max.	106 mm
r_a max.	1 mm
r_b max.	0.6 mm
Basic dynamic load rating C	48.8 kN
Basic static load rating C_0	44 kN
Fatigue load limit P_u	1.86 kN
Attainable speed for grease lubrication	11000 r/min
Ball diameter D_w	12.7 mm
Number of balls z	19
Preload class A G_A	300 N
Static axial stiffness, preload class A	191 N/ μ m
Preload class B G_B	600 N
Static axial stiffness, preload class B	249 N/ μ m
Preload class C G_C	1200 N
Static axial stiffness, preload class C	330 N/ μ m
Preload class D G_D	2400 N
Static axial stiffness, preload class D	447 N/ μ m
Calculation factor f	1.12
Calculation factor f_1	0.99
Calculation factor f_{2A}	1



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Calculation factor f_{2B}	1.02
Calculation factor f_{2C}	1.05
Calculation factor f_{2D}	1.08
Calculation factor f_{HC}	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67
Mass bearing	0.61 kg